

REPORT OF THE STATE INSPECTOR OF MINES FOR THE YEAR 1910.

By JAMES EPPERSON.

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LETTER OF TRANSMITTAL.

OFFICE OF INSPECTOR OF MINES,
INDIANAPOLIS, IND., March 11, 1911.

Prof. W. S. Blatchley, State Geologist:

DEAR SIR—I have the honor to submit to you herewith my twelfth annual report as Inspector of Mines, covering the calendar year of 1910, and being the thirty-second annual report of this department and twentieth made to the Department of Geology and Natural Resources.

I trust it will receive your approval and be found worthy of consideration by the public.

JAMES EPPERSON,
Inspector of Mines.

Thirty-Second Annual Report of the Inspector of Mines for the State of Indiana.

In preparing this report the subject-matter contained herein is treated under the following captions:

Production of Coal, Condition of Coal Trade, Condition of Labor, Mine Casualties to Mine Employees, and Mine Property and General Information Relating to the Mining Industry for the Year Ending December 31, 1910.

Each of these subjects has been treated in a manner such as we think should meet the requirements of the general public and those directly interested in the business of mines and mining.

Reference to each of the subjects included in the report may be found in the following summary, which contains all the important totals and averages for the year:

SUMMARY OF TOTALS AND AVERAGES FOR THE YEAR 1910.

Number of coal producing companies	18
Number of counties operating shipping mines	12
Number of coal seams operated	6
Number of coal companies organized	15
Total number of companies operating in the State	104
Number of new block coal mines opened	5
Number of new bituminous mines opened	8
Number of block coal mines abandoned	6
Number of bituminous mines abandoned	10
Number of block coal machine mines in operation	4
Number of block coal hand mines in operation	26
Number of block coal hand mines idle during the entire year	2
Number of block coal machine mines idle during entire year	0
Number of bituminous hand mines in operation	73
Number of bituminous machine mines in operation.....	64
Number of bituminous hand mines idle during entire year..	12
Number of bituminous machine mines idle during entire year	1
Total number of machine mines in the State	69
Total number of hand mines in the State	113
Total number of mines employing more than ten men	182
Number of miners, block hand mines	992
Number of inside day and monthly men in block hand mines	312

Number of outside day and monthly men in block hand mines	116
Total number of block miners, in block machine mines.....	92
Number of machine runners and helpers, block machine mines	44
Number of loaders, block machine mines	168
Number of inside day and monthly employes, block machine mines	100
Number of outside day and monthly employes, block machine mines	47
Total employes, block mines	1,871
Number of miners, bituminous hand mines	5,923
Number of inside day and monthly employes, bituminous hand mines	1,593
Number of outside day and monthly employes, bituminous hand mines	605
Total number of hand miners, bituminous machine mines....	1,699
Number of machine runners and helpers, bituminous machine mines	1,058
Number of loaders, bituminous machine mines	4,834
Number of inside day and monthly employes, bituminous machine mines	2,652
Number of outside day and monthly employes, bituminous machine mines	336
Total number of employes, bituminous mines	19,300
Total number of mine employes in the State	21,171
Number of mules used, block mines	152
Number of mules used, bituminous mines	1,558
Total number of mules used in all mines	1,710
Number of kegs of powder used in block mines	50,624
Number of kegs of powder used in bituminous mines	538,006
Total number of kegs powder used in the State	588,626
Aggregate number of days block coal mines were operated...	4,672
Average number of days, per mine, block machine mines were operated	207
Average number of days, per mine, block hand mines were operated	148
Aggregate number of days bituminous mines were operated..	28,572
Average number of days, per mine, bituminous hand mines were operated	193
Average number of days, per mine, bituminous machine mines were operated	226
Tons hand mined block coal	640,946
Tons machine mined block coal	234,513
Total tons of block coal produced	875,459
Tons of hand mined bituminous coal, produced	6,595,931
Tons machine mined bituminous coal produced	10,653,854
Total production of the State	18,125,244
Tons block coal shipped outside the State	608,541
Tons block coal consumed in the State	266,918
Tons block coal shipped outside the State.....	608,541

Tons bituminous coal consumed in the State	8,235,655
Tons bituminous coal shipped outside the State	9,889,589
Total tons of coal consumed in the State	8,235,655
Wages paid to block coal miners	\$784,377 20
Wages paid to inside day and monthly employes, block mines	296,601 52
Wages paid to outside day and monthly employes, block mines	128,215 88
Total wages paid to block coal employes	1,209,194 60
Wages paid to bituminous miners	9,809,610 82
Wages paid to inside day and monthly employes, bituminous mines	3,363,368 28
Wages paid to outside day and monthly employes, bituminous mines	1,145,217 02
Total wages paid to bituminous mine employes	14,318,196 12
Grand total wages paid to mine employes	15,527,390 72
Average earning per mine employe for the year	733 42
Total average cost per ton for mining block coal	1 38
Total average cost per ton for mining bituminous coal	83
Total average cost per ton for entire production of State...	86
Total money expended on improvements	24,868 37
Number of fatal accidents	51
Number of permanent accidents	6
Number of serious accidents	505
Number of minor accidents	1,009
Total number of accidents to mine employes	1,571
Number of accidents to mine property	9

PRODUCTION OF COAL, COAL TRADE AND MINING CONDITIONS.

A review of the mining industry in Indiana for the year 1910 discloses a most gratifying condition in all the many branches of the industry. A larger increase in the production of coal, stronger and steadier market demands, a higher average selling price for all grades of coal, the highest average wages earned by mine employes, fewer strikes and a much larger tonnage per each fatal, permanent or serious accident to mine employes are shown than in any preceding year in the history of the State.

All the mines in the bituminous field, except one or possibly two very small producing mines, were idle pending a settlement of a wage agreement from April 1 to May 5. Work in the block coal field, however, continued uninterrupted after April 1, the miners continuing to work pending a settlement of the wage scale, which was effected early in the month.

- PRODUCTION.

Notwithstanding this idle time, the total production for the year was 18,125,244 short tons, an increase of 4,433,155 tons, or a fraction over 32.3 per cent., over 1909, the highest previous year in production.

A certain per cent. of this large increase came from every county in the State except Fountain and Perry counties, with one mine each, which were idle or working less than ten men. The largest increases came from Sullivan, Vigo, Greene, Vermillion and Knox counties, and was produced by machine mines. Sullivan, with an increase of 1,538,603 tons, shows the largest increase of all the counties.

The following table exhibits the relative rank of the twelve counties in the number of tons produced in 1910:

Tons of Coal Produced and Wages Paid to Miners in Indiana in 1910 by Counties.

COUNTY.	Tons Produced.	Wages Paid.
Sullivan	4,339,173	\$3,703,122 05
Vigo	4,116,981	3,612,856 18
Greene	3,241,690	2,532,927 19
Vermillion	1,676,281	1,446,481 10
Knox	1,045,868	720,091 71
Clay	948,402	1,064,757 19
Parke	727,727	780,260 75
Warrick	701,390	559,108 79
Pike	599,952	485,978 48
Vanderburgh	369,987	295,534 48
Gibson	285,101	255,286 61
Daviess	72,692	70,986 19
Total	18,125,244	\$15,527,390 72

Of the total production there were 17,249,785 tons of bituminous and 875,459 tons of block coal.

DISTRIBUTION OF PRODUCT.

Of the bituminous coal, 7,968,737 tons were consumed in Indiana and 9,281,048 tons were shipped to other States, and of the block coal, 266,918 tons were consumed in Indiana and 608,541 tons shipped to other States, or a fraction over 54.56 per cent. of the entire production shipped to other States, while in 1909 but 42.6 per cent. of the production was shipped to other States.

The aggregate wages reported for the year was \$15,527,390.72, an increase of \$4,147,339.68, or a fraction over 36.4 per cent. for 1910 over 1909.

COST OF PRODUCTION.

The aggregate wages reported from the bituminous field was \$14,318,196.12, making a fraction over 83 cents per ton for the labor cost for total production of bituminous coal.

The total wages from the block field was \$1,209,194.60, or a fraction over \$1.38 per ton for labor cost for total production of block coal.

MARKET PRICES.

The market prices for bituminous coal during the period from January 1 to April 1 (except yearly contracts) ranged from \$1.15 to \$1.75 per ton for mine run f. o. b. cars at mine, the highest prices prevailing during the month of March. More coal was produced in this month than in either of the two months preceding; \$1.40 would probably be a fair average selling price for this period. From May 1 to October 1 prices ranged from \$2.50 down to \$1.35; in a few instances the prices reached \$2.75, but taking the bituminous field as a whole, \$1.95 per ton would be a fair average for that period. From October 1 to January 1 prices fluctuated considerably, ranging from \$1.35 to \$1.50, and as low as \$1.15 per ton; \$1.35 would be a fair average for this period, or a probable average of \$1.60 per ton for mine run bituminous coal for the year. Market prices for block coal ranged from \$2.25 to \$3.25 per ton f. o. b. R. R. cars at the mines, giving \$2.75 as a fair average for the year.

EMPLOYEES.

The total number of mine employees reported for the year was 21,171, an increase of 2,263 over 1909. Of this number 19,300 were bituminous and 1,871 block coal employees.

AVERAGE WAGES OF EMPLOYEES.

The total wages reported from the bituminous field being \$14,318,196.12 shows an average earning of \$741.87 for each bituminous mine employe, and the total wages paid to block mine employees being \$1,209,194.60 shows an average earning of \$646.27 for each block coal employe; the aggregate wages for the State being \$15,527,390.72 and the total number of employees in the State 21,171, shows an average earning of \$733.42 for each mine employe in the State.

The average wages of all classes of mine employees, the block and bituminous mines each shown separately, are given in the following table:

TABLE

Exhibiting the Number of Miners, the Number of Inside Day and Monthly Employees, the Number of Outside Day and Monthly Employees, the Total Wages Earned by Each Class of Labor, and the Average Earnings per Employee in the Block and Bituminous Mines, Each Shown Separately.

BLOCK COAL HAND MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Inside Em- ployes.	Total Wages.	Average Wages.	Outside Em- ployes.	Total Wages.	Average Wages.
Clay.....	681	\$388,742 69	\$570 84	222	\$158,299 99	\$713 06	85	\$64,821 34	\$762 60
Parke.....	311	213,045 05	685 03	90	61,222 41	680 25	31	36,054 33	1,163 04
General average for block hand mines.....	992	\$601,787 74	\$606 64	312	\$219,522 40	\$703 60	116	\$100,875 67	\$869 61

BLOCK COAL MACHINE MINES.

Parke.....	39	\$8,578 78	\$219 98	16	\$3,710 16	\$231 88	10	\$2,951 86	\$295 18
Vigo.....	265	174,010 68	660 42	84	73,368 96	873 44	37	24,388 35	659 15
General average for block machine mines.....	304	\$182,589 46	\$600 62	100	\$77,079 12	\$770 79	47	\$27,340 21	\$581 71
General average for all block mines.....	1,296	\$784,377 20	\$605 23	412	\$296,601 52	\$719 91	163	\$128,215 88	\$791 46

BITUMINOUS HAND MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Inside Em- ployes.	Total Wages.	Average Wages.	Outside Em- ployes.	Total Wages.	Average Wages.
Clay.....	155	\$101,755 16	\$656 48	30	\$21,676 28	\$722 54	15	\$11,026 92	\$735 13
Daviess.....	113	57,891 28	512 31	27	6,853 53	253 83	15	6,241 38	416 09
Fountain.....	Idle								
Gibson.....	188	173,669 93	923 78	78	50,117 83	642 54	22	31,498 85	1,431 77
Greene.....	458	343,409 10	749 80	128	70,491 37	550 71	56	36,482 67	651 48
Knox.....	47	33,891 65	721 10	9	7,583 11	842 57	6	4,760 37	793 39
Parke.....	230	108,106 55	470 03	76	34,420 60	452 90	22	11,604 16	527 46
Perry.....	Idle								
Pike.....	492	257,987 04	524 37	96	70,482 18	734 19	41	29,066 47	708 94
Sullivan.....	460	318,270 91	691 89	172	108,385 58	630 15	90	48,980 34	544 23
Vanderburgh.....	304	200,160 41	658 42	90	63,304 45	703 38	52	32,069 62	616 72
Vermillion.....	1,042	829,447 42	796 01	265	243,218 19	917 81	80	48,185 49	602 32
Vigo.....	2,193	1,558,396 98	710 62	569	500,563 06	879 72	172	143,665 70	835 27
Warrick.....	241	145,128 25	1,085 41	53	66,268 46	1,250 35	34	17,308 58	509 08
General average for bituminous hand mines.....	5,923	\$4,128,114 68	\$696 96	1,593	\$1,243,364 64	\$780 52	605	\$420,890 55	\$695 69

BITUMINOUS MACHINE MINES.

Clay.....	316	\$208,214 18	\$658 91	86	\$76,357 79	\$887 88	35	\$33,862 84	\$967 51
Greene.....	1,979	1,411,664 39	713 32	688	500,801 03	727 91	204	170,078 63	833 71
Knox.....	608	479,329 32	788 37	165	136,616 79	827 98	63	57,910 47	919 21
Parke.....	242	185,490 56	766 49	99	83,266 61	841 08	39	31,809 68	815 63
Pike.....	123	87,483 64	711 25	25	26,427 81	1,057 11	17	14,581 34	854 78
Sullivan.....	2,570	2,045,715 43	795 99	1,073	903,600 22	842 12	388	278,169 57	716 93
Vermillion.....	286	228,401 84	798 61	83	78,193 83	942 09	33	19,034 33	576 79
Vigo.....	1,143	798,897 11	698 94	356	258,036 22	724 82	95	81,529 12	858 20
Warrick.....	324	236,299 67	729 32	77	56,703 34	723 42	62	37,400 49	603 23
General average for bituminous machine mines.....	7,591	\$5,681,496 14	\$725 57	2,652	\$2,120,003 64	\$799 40	936	\$724,326 47	\$773 85
General average for hand bituminous mines.....	5,923	\$4,128,114 68	\$696 96	1,593	\$1,243,364 64	\$780 52	605	\$420,890 55	\$695 69
General average for the State.....	14,810	\$10,593,988 02	\$715 32	4,657	\$3,659,969 80	\$785 91	1,704	\$1,273,432 90	\$747 32

ACCIDENTS TO EMPLOYEES.

It is pleasing to note that notwithstanding an increase of 4,433,155 tons of coal produced in 1910 over 1909, and an increase of 2,263 in the number of employes, among which were a large number of miners, drivers, timbermen, machine runners, helpers and shot firers, all of which occupations are among the most hazardous in connection with mining; also that the increased tonnage mined necessitated a large increase in the amount of explosives used, one of the most dangerous factors in the production of mine accidents both directly and indirectly, and the greater the number of tons of coal excavated the greater the space of roof uncovered or exposed, thus increasing the danger of accidents from falls of slate or rock—in fact, an increase in every avenue of danger incident to coal mining—there was but one more fatal, two less permanent and twenty less serious accidents reported for the year 1910 than in 1909. The comparative table given in this report exhibiting the number of tons of coal produced, number of employes, number of fatalities and tons per fatality shows 51 fatalities for 1910 and 18,125,244 tons of coal produced, or 355,397 tons for each fatality. These figures show an increase of 71,551 tons per each fatality for 1910 over 1909, which year had a higher tonnage per fatality than any previous year. This record, so far as we can learn, is not equaled in the United States, not, for that matter, in the world.

STRIKES AND SUSPENSIONS.

There were but few strikes during the year 1910 except those affecting only individual mines, and those occurring were usually of but a few days' duration.

The same may also be said of suspension, with but one exception. The mines of District No. 11, representing the bituminous field of Indiana, suspended work April 1st pending a settlement of the yearly wage agreement. During the suspension several features were developed that tended very much toward a strike. The operators were not permitted to work any employes on necessary repairs nor in any other capacity except pumpers and engineers. A settlement was finally agreed upon, a scale governing wages, conditions, etc., signed, effective during the scale years from August 1, 1910, to April 1, 1912, and the mines, those that were in condition, resumed operations May 4th and 5th. Many of the larger mines, though, as a result of the operators having been refused

permission to make necessary repairs during the suspension, were unable to hoist coal for several weeks.

In the Blöck Coal field an agreement was arrived at before April 1st and work in that field continued uninterrupted.

We give herewith copies of the Terre Haute and Brazil agreements:

TERRE HAUTE AGREEMENT.

Arranged and Adopted By and Between the United Mine Workers of District 11 and the Indiana Bituminous Coal Operators' Association, Effective during the Scale Years from
August 1, 1910, to April 1, 1910.

It is hereby agreed:

ARTICLE I.

Section 1. That the bituminous coal district of Indiana shall pay fifty-eight (58 cents) per ton for all mine-run coal loaded and shipped as such. All other coal mined in that district shall be passed over regulation screen, and be paid for at the rate of ninety-five cents (95 cents) per ton of two thousand (2,000) pounds for screened lump.

Sec. 2. The standard height of coal in Indiana shall be 3 feet 3 in. in mines opened prior to April 1, 1901, and in mines opened since April 1, 1901, the standard height shall be 3 feet 6 inches. All coal less than 3 feet 3 inches in thickness and over 2 feet 9 inches, the price shall be 103 cents per ton for screened lump coal, and 67 cents per ton for mine-run coal. All coal less than 2 feet 9 inches and down to 2 feet 6 inches, the price shall be 111 cents per ton for screened lump coal and 68 cents per ton for mine-run coal.

Sec. 3. That the screen hereby adopted for the bituminous district of Indiana shall be uniform in size, six (6) feet wide by twelve (12) feet long, built of flat or Akron-shaped bar, of not less than five-eighths ($\frac{5}{8}$) of an inch surface, with one and one-fourth ($1\frac{1}{4}$) inches between bars, free from obstructions, and that such screens shall rest upon a sufficient number of bearings to hold the bars in proper position.

ARTICLE II.

Machine Mining.

Price per ton for Machine Mining for Punching Machine, Vandalia Track and north thereof:

Section 1. Screened Lump-Runner, 12.1 cents; helper, 11.1 cents; loading, shooting and timbering, 52.8 cents; total 76 cents.

Sec. 2. Run of Mine-Runner, 8 cents; helper, $7\frac{1}{2}$ cents; loading, shooting and timbering, $32\frac{1}{2}$ cents. Total, 48 cents.

South of Vandalia Track:

Sec. 3. Screened Lump-Runner, 11 cents; helper, 10 cents; loading, shooting and timbering, 55 cents. Total, 76 cents.

Sec. 4. Run of Mine-Runner, 7 cents; helper $6\frac{1}{2}$ cents; loading, shooting and timbering, $34\frac{1}{2}$ cents. Total, 48 cents.

For Chain Machine.

Sec. 5. Screened Lump-Runner, 6.6 cents; helper, 6.6 cents; loading, shooting and timbering, 59.3 cents. Total, 72½ cents.

Sec. 6. Run of Mine-Runner, 4.3 cents; helper, 4.3 cents; loading, shooting and timbering, 36.9 cents. Total, 45½ cents.

Sec. 7. Machine shovels shall be furnished by the operators, but when replaced the old shovels must be returned, and in case of careless breaking or destruction, the helper shall pay for the shovel so destroyed. Coal companies shall also furnish coal shovels for the machines, when the use of such shovels is demanded by the company.

Day Work for Punching Machines.

Sec. 8. Machine work, when paid for by the day, shall be, for machine runner, \$3.34.6; helper, \$2.70.2.

Day Work, Chain or Cutter Bar Machine.

Sec. 9. When paid for by the day, shall be, for machine runner, \$3.17.7; helper, \$3.17.7.

Day work by machines shall apply only to opening new mines and defective work, such as horse backs, etc.

ARTICLE III.

Yardage and Room Turning, Machine.

Section 1. In entries 7 to 9 feet wide, \$1.41; in entries 12 feet wide, five-eighths of price of narrow entries, or 88 cents.

Narrow work after punching machines shall be sheared when demanded by the operator. Narrow work after the chain machine must be done in a workmanlike manner.

Sec. 2. Break-throughs between entries same as entry prices. Break-throughs between rooms shall be paid for at same price when similarly driven.

Sec. 3. In narrow entries and narrow break-throughs between entries in chain machine mines, the loader shall receive \$1.24 per yard and the machine runner and helper each 8½ cents per yard, and in wide entries the same proportion. In entries and break-throughs between entries in punching machine mines the loaders shall receive \$1.20 per yard and the runner and helper each 10½ cents per yard, except where coal is sheared, in which case the runner and helper shall receive all the yardage, and where machines are worked by the day the loaders shall receive all the yardage.

Room Turning—Machine Mines.

Sec. 4. Room turning, \$3.56. Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by operators. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, price shall be five-eighths of regular prices, or \$2.22.

ARTICLE IV.

Yardage and Room Turning—Pick Mines.

Section 1. Narrow entries 7 to 9 feet wide, \$1.97 per yard. Wide entries 12 feet wide, \$1.23 per yard.

Sec. 2. Wide entries shall not be more than 13 feet nor less than 11 feet. In the event of a 10 or 11 feet entry being demanded by the operator, narrow entry prices shall be paid, if 14, 15, 16, or 17 feet entries are demanded the wide price shall be paid.

Sec. 3. Break-throughs between entries shall be paid for at entry prices. Break-throughs between rooms, when sheared or blocked, shall be paid for at entry prices, but no break-throughs shall be driven without consent of the operator. Nothing herein shall interfere with the law governing break-throughs.

Sec. 4. Room turning, \$4.75. Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by the operator. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, the price shall be five-eighths of regular price, or \$2.97, and the right of the operator to drive an 18 foot room when necessary shall not be questioned.

Sec. 5. The price for mining herein agreed to for pick and machine work shall include all labor necessary to cut the coal, drill and blast the same, load it on the miner's car and properly care for and timber the miner's working place, and no division of the scale shall carry any exception to this rule. In case a miner fails to properly timber, shoot, and care for his working place so that any of the company's property is injured, the miner whose fault has occasioned such damage shall repair the same without compensation: Provided, however, that where shot-firers are employed and partially paid by the company the condition shall continue during the life of this agreement.

Blacksmithing.

Sec. 6. Price of blacksmithing shall be $1\frac{1}{4}$ cents on the dollar. Sharpening shall be done in a workmanlike manner and men shall not have to wait for their tools.

ARTICLE V.

Day Labor.

Section 1. The wages of inside day labor shall be \$2.70 per day and eight hours where and when men are employed, except as herein provided.

Sec. 2. The wages of spike team driver shall be \$2.95 per day. The drivers shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor, their work beginning when they reach the change at which they receive empty cars, but in no case shall a driver's time be docked while he is waiting for such cars at the point named.

Sec. 3. The wages of motormen shall be \$3.17 per day, and trappers \$1.25 per day.

Sec. 4. The wages of outside men except as herein provided shall be \$2.13 per day of eight hours on and north of the B. & O. S. W. R. R., and

south of the B. & O. S. W. R. R. the wages shall be 181½ cents per day, with 10½ cents per day in addition thereto commencing April 1st, 1911, and each year thereafter until the scale south equals that north of the B. & O. S. W.

Sec. 5. The wages of engineers, blacksmiths and firemen south of the B. & O. S. W. R. R. shall be increased 5.55 per cent. on the wages being paid March 31st, 1911, plus 25 per cent. of any difference then existing in wages paid south and the scale of wages provided for the north and 25 per cent. of said difference shall be added annually thereafter commencing April 1, 1911, until the scale south equals that paid north of said B. & O. S. W. R. R.

Sec. 6. The blacksmiths' wages shall be \$3.10 per day of nine hours at all mines north of the B. & O. S. W. R. R., and in addition to their ordinary duties all blacksmiths shall do any other labor required of them by the mine management: Provided, however, that they shall receive their regular wages therefor.

Sec. 7. All day men shall at all times do and perform any and all kinds of labor required of them by the mine management: Provided, however, that on idle days men shall have an equal division of the work they usually perform when the mine hoists, and where men are employed as drivers, cagers and motor men they shall have an equal share of all extra work, such as cleaning roads, getting in rails, timber or any other work required of them, when the same does not interfere with the work of other men, and day work shall be done on idle days and in cases of emergency or overtime.

Sec. 8. In the absence of any driver, any miner who can drive shall be expected to do so when requested. Any miner leaving his place to drive shall be permitted to load one car for each day that he drives.

Sec. 9. All day laborers working at the mines, excepting weighmasters, head flat-trimmer, dumper, fire-bosses and boss-drivers who shall be regarded strictly as company men, shall be recognized as members of the U. M. W. of A. In emergencies or in the absence of any regular employe the right of the operator to employ men not members of the U. M. W. of A. for outside day labor shall not be questioned. Any and all flat-trimmers shall dock for dirty coal.

Section 10. That the above scale is based upon an eight-hour work-day; that it is definitely understood that this shall mean eight hours' work at the face, exclusive of the noon time, six days in the week, and that no local ruling shall in any way deviate from this agreement, or impose conditions affecting the same, but any class of day labor may be paid at the option of the operator for the number of hours and fraction thereof actually worked at the hour rate, based on one-eighth of the scale rate per day: Provided, that when men go into the mine in the morning they shall be entitled to two hours' pay whether the mine works or not, excepting in event of a mine being closed down by action of any member or members of the U. M. W. of A., the two hours' pay shall be forfeited.

ARTICLE VI.

Engineers' Wages and Their Duties.

The engineers' wages shall be:

Section 1. First engineer, \$89.05; second engineer, \$77.19; third engineer, \$71.25.

Sec. 2. Eight hours shall constitute a day's work, but the engineers shall outside of regular hours, hoist and lower the men, and in addition shall perform all the duties which necessarily and usually pertain and belong to an engineer's position, and shall not receive any extra pay therefor. It is agreed further that no hoisting engineer shall be subjected to the interference or dictates of the mine committee nor the local unions, but all the differences between the engineer and his employer shall be adjusted by the officers of the U. M. W. of A., and employer interested.

Sec. 3. In case of either local or general suspension of mining either at the expiration of this contract, or otherwise, the engineers shall not suspend work, but shall, when mining is suspended, fully protect all of the company's property under their care, and operate fans and pumps, and lower and hoist such men, mules or supplies as may be required, and any and all coal required to keep up steam at the company's coal plants, but it is understood and agreed that the operators will not ask them to hoist any coal produced for sale on the market, and there shall be no change in engineers' wages during the suspension.

Sec. 4. All hoisting engineers at pick mines shall do the firing where the production does not exceed 300 tons of coal per day, and at machine mines in process of development until the production shall have reached 200 tons per day. Engineers shall do the firing on idle days at the option of operator, except when dynamos or compressors are being run to furnish power to operate mining machines to cut coal, but the services of the fireman shall not be dispensed with where a mine cease hoisting coal in the midst of a shift.

Sec. 5. The wages of firemen shall be: Per day of 10 hours, \$2.58½; per month, \$68.60; per night of 12 hours, \$2.48; per month, \$67.02. The day firemen shall do and perform any service required of them by the mine management, and shall be entitled to an equal division of labor, with other outside day men on idle days at such labor as they are competent to perform, and the night fireman, or watchman, in addition to his other duties, shall be responsible for the pumps within a distance of 250 feet from the main shaft bottom, and shall go into the mine when necessary to start them.

ARTICLE VII.

Dead Work.

Section 1. It is agreed that the companies shall have the working places as dry as local conditions will permit, and said working places shall be in working condition at time of starting work in the morning. If any company shall fail to have said working places dry or reasonably so one hour after starting time two successive days, the company shall, if said failure is traceable to neglect or carelessness of the company's agent, give miners so affected other work or pay him or them for time so lost.

Sec. 2. The question of slate in or over the coal, shall be, and is regarded a local question to be taken up and adjusted by the methods provided in the annual Terre Haute agreement for the settlement of disputes: Provided, however, that established usages and prevailing conditions shall not be changed except in new mines where they have not been considered and adjusted.

Sec. 3. Where bottom coal is excessively hard to take up, the operator shall have the option. If he demands that it be taken up he shall pay extra therefor: Provided, that where coal so left shall exceed 4 inches in thickness it shall be taken up by the loaders and paid for by the machine men, but this shall not apply when caused by sulphur boulders, rock, or any unusual condition. And whenever there shall arise a dispute between any loader and boss, or committee and boss as to whether the bottom coal in any room is "excessively hard," the company interested shall select a man who shall take up one-third of such bottom coal, and if by such test it requires more than forty minutes to take up all the bottom coal in such room, then the loader shall be paid at the rate of $33\frac{1}{4}$ cents per hour for such time so required in excess of forty minutes. This is to apply to the No. 4 vein of Linton coal.

Sec. 4. In mines where it is necessary to remove top or bottom in working places, commonly known as brushing, the following scale shall be paid:

Sec. 5. When necessary to shoot top or bottom in entries 9 inches in thickness, 47 cents per yard, and $5\frac{1}{9}$ cents per inch per yard for any additional thickness. In rooms where necessary to shoot 9 inches in thickness, 37.9 cents per yard, and for each additional inch $4\frac{2}{9}$ cents.

Sec. 6. When brushing is necessary and can be done without shooting the price in entries shall be $4\frac{2}{9}$ cents per inch per yard, and in rooms, $3\frac{1}{10}$ cents per inch per yard.

Sec. 7. No brushing shall be done nor paid for without ordered and amount specified by the mine boss. The miner doing the brushing in entries shall load or "gob" the same as directed by the mine boss. In rooms the miner shall "gob" the refuse. Brushing shall be six feet wide in entries and five feet wide in rooms.

Where material is so hard that the drilling cannot be done with regular machine or churn drill, the above scale does not apply.

ARTICLE VIII.

General.

Section 1. When the coal is paid for mine-run it shall be mined in as good condition as when paid for on a screened lump basis, and when loaded on the miner's car, it shall as nearly as possible be free from slate, bone coal or other impurities. Any miner loading impurities with his coal in such quantities as to show intent, or gross negligence, shall for the first offense be fined 50 cents; for the second offense 75 cents; for the third and each subsequent offense in the same pay, \$1.00. Such penalties to start with each pay. The fine so collected to be held in the office of the operator until the local votes a donation to some member who has been injured, ill or has met with some misfortune, which will entitle him to assistance from the

local. In case of dispute, the impurities will be kept until the case is settled.

Sec. 2. Wages shall be paid semi-monthly on or before the 10th and 25th of each month.

Sec. 3. The time of beginning work in the morning and the length of intermission at noon shall be considered a local question which must be so arranged as to secure eight hours' work per day.

Sec. 4. The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any of the members of the United Mine Workers of America working in and around the mines. The mine committee shall have no other authority, nor exercise any other control, nor in any way interfere with the operation of the mine, and for violation of this clause the committee or any member thereof shall be discharged.

Sec. 5. It is agreed that if any differences arise between an employer and employe in or about the mines, an attempt shall be made to adjust the same by the person or persons affected, with the company's representative in immediate charge. If they fail to agree the question shall be referred to the mine boss and mine committee. If they fail to agree it shall be referred to the mine superintendent and mine committee. If they fail to agree it shall be referred to the President of District 11, U. M. W. of A., and the Secretary of the Indiana Bituminous Coal Operators' Association, whose decision shall be final. It is imperative on the part of the two officials to reach an agreement on all questions referred to them and that the dispute shall be settled within five days, unless longer time is agreed to by the two officials named: Provided, that nothing in this clause shall prevent the district officers from taking up for adjustment any dispute with the officers of the company affected.

Sec. 6. That pending negotiations the miners shall not cease work because of any dispute, and an agreement reached at any stage of the proceedings shall be binding on both parties thereto, and not subject to review or revision of any other party or branch of either association.

Sec. 7. That under no circumstances will the operators recognize or treat with a mine committee or any representative of the United Mine Workers of America during the suspension of work contrary to this agreement.

Sec. 8. No restriction shall be placed on the amount of coal which machines may mine, nor upon the number of places in which machines may cut, nor upon the number of loaders that may work after one machine, nor upon the amount of narrow work that any machine runner may be required to do, nor upon the number of cars that any miner may load in any specified time.

Sec. 9. The operators shall have the privilege of working a night shift for cutting coal with machines. All men so employed shall be paid 28 cents extra for each eight hours' work at night, in addition to the scale price per ton.

Sec. 10. Work on driving entries and drawing pillars may be by double shift at the option of the operator.

Sec. 11. This contract shall in no case be set aside because of any rules of any local union of the U. M. W. of A. Nor shall there be any

rules made controlling or affecting the operations of the mines nor shall any change be made in accepted rules without the operators and miners first consulting and agreeing thereto.

Sec. 12. All local rules in violation of this contract shall be null and void, and no local union nor group of local unions shall pass any rules in violation, neither shall any company enforce any rule in violation of this contract.

Sec. 13. Coal may be dumped as slowly as the operator may find necessary to thoroughly screen it, even if the car is brought to a stop, but it shall not be dumped in such a way as to throw the coal over the car door or unnecessarily break it.

Sec. 14. Any miner knowing his place to be unsafe, shall protect same without delay and shall go into the mine for that purpose outside of regular hours and on idle days.

Sec. 15. Men shall work double in wide entries at option of operator in developing the mine or for running entries for purpose of increasing production.

Sec. 16. Where three places are now given to two loaders the custom shall continue.

Sec. 17. No more than three places for two men nor two places for one man shall be allowed. In mines where the coal averages 6 feet high or over, rooms 30 feet wide or over equipped with two tracks shall be considered double places, and two loaders may be limited to two such places.

Sec. 18. In Sullivan County where men work double in two rooms 25 to 30 feet wide with track up the center, the custom shall continue.

Sec. 19. Whenever a new mine is opened it shall be governed by the same rules existing in other contiguous mines in the same vein of coal.

Sec. 20. The price of powder shall be \$1.75. The miners agree to purchase the powder from their operators, provided it is furnished of standard grade and quality, that to be determined by the operators and expert miners jointly where there is a difference.

Sec. 21. It is further agreed that the operator shall deliver the powder to the working places of the miners, and will use all reasonable precautions to insure a safe delivery of same, and will co-operate with the mine committee in tracing powder lost in transit, but shall not in any way be responsible for powder lost, except in case where the loss is caused by the direct negligence of the operator or mine management, and in the event of kegs being broken or powder being caked, powder shall be replaced: Provided, however, that where miners carry their powder from magazine to inlet the practice shall continue.

Sec. 22. All local rules regarding the number of cars required above the tipple south of the Vandalia are hereby abolished, and in lieu of which it is agreed that the operators shall blow the whistle at 8 o'clock in the evening when intending to work the following day, and again at 5 o'clock in the morning if cars are there or promised by the railroad company to be there at 7 o'clock or starting time. If the company blows the whistle at 5 o'clock a. m. without the promise of cars and the miners report for work at 7 a. m. or starting time, and there are no cars, the company shall pay to the local union a fine of \$25.00.

Sec. 23. The U. M. W. of A. shall have no jurisdiction nor exercise any control over construction work, such as the erection of tipples or mine buildings, scales, machinery, or screening apparatus necessary to hoist and prepare coal.

Sec. 24. Where dirt must be removed to prepare pillars the miner shall be paid as agreed upon by miner and mine boss, or company, to remove same.

Sec. 25. An employe absenting himself from work for three days without a reasonable excuse, or having notified the mine manager and obtained his consent, may be discharged. This shall mean starting time of the third day.

Sec. 26. All miners shall put down their points and last pair of rails in their working places, and shall nail one end of same, but are not expected to tie and permanently lay their road.

Sec. 27. The chief electrician shall be exempted from control of mine committee or local union, but in case of any dispute between him and the company the district officers shall adjust the same with officers of company involved.

Sec. 28. Where any company operate more than one mine on the same line of road in the same vein of coal, the work between the respective mines shall be as nearly as business conditions will permit equally divided.

Sec. 29. All machine men shall work on idle days at operators' option to make up time lost on previous working days.

Sec. 30. Every miner shall be given an opportunity to load an equal turn with every other miner doing the same class of mining. Where pick and machine miners are working in the same mine the turn shall be in proportion to the ratio between pick mining prices and machine loading prices.

Sec. 31. The check-weighman shall furnish the boss-driver or mine-boss from day to day a turn sheet, and he shall cause the turn to be regulated: Provided, further, that no run or entry in machine mines shall be permitted to get more than five cars in advance of another run or entry, and in pick mines not more than two cars, except in case of accident.

Sec. 32. It is further agreed that the operators shall offer no objection to the check-off for the check-weighman, and for dues for the U. M. W. of A., provided that no check-off shall be made against any person until he shall have first given his consent in writing to his employer. This applies to all day work as well as miners.

ARTICLE IX.

Section 1. It is agreed that when miners come out or stay out of the mine for the purpose of redressing a grievance, real or supposed, thus entirely or partially shutting down mine or mines contrary to the expressed terms of the agreement, each employe so ceasing or refraining from work shall be fined in the sum of one dollar per day during such shut-down. The total amount so collected, together with an equal amount to be paid by the Company, shall be deposited at the First National Bank of Terre Haute, where it shall be held subject to check by the Treasurer of Operators' Association and the Treasurer of District No. 11, U. M. W. of A. jointly, until such time as the case has been definitely settled.

After the decision has been rendered and it is found that the shut-down was in violation of the contract, the fines collected from the miners and held in deposit shall be turned over to the Operators' Association, but if not guilty of violation of contract the money shall be returned to the miners from whom collected, and if it has been proven that the cause leading to the shut-down was a violation, on the part of the mine management, of the expressed terms of the contract with the exception of Section 31, Article 8, the amount paid by the Company and held in deposit shall be turned over to District No. 11, U. M. W. of A., but if there was no such violation of the contract on the part of the mine management, the amount paid by the Company shall be refunded.

Sec. 2. Any mine manager, superintendent or mine boss who shall fail to comply with the expressed provisions of this contract shall be fined \$5.00 for the first offense and for each and every subsequent offense. It is understood and agreed that the penalty imposed in this paragraph shall not apply to Section 31, Article 8, or to violation of local rules that have not been agreed to by mine manager and mine committee and reduced to writing and forwarded to the Secretary of the Operators and President of District 11. The fine thus assessed shall be deducted from each person so offending through the pay roll, and this agreement is the Company's authority for making such deductions.

Sec. 3. It is agreed, that when any employe shows that he spoke against, or was not present when a suspension of work was ordered, or took place, the fine shall be refunded to such employe furnishing such evidence and an equal amount shall be refunded to the Company out of the amount deposited.

Sec. 4. It is agreed that in the event of an inside employe being wrongfully discharged, and it is so discovered by methods herein provided, and by the same methods is reinstated, he shall be paid for time lost at the rate per day prevailing for inside day labor: Provided, however, that the company shall have the option of permitting the accused to continue at work pending the investigation, and the same shall apply to outside day laborers, except the outside day labor scale shall be paid.

Sec. 5. Except in cases of fatal accidents in the mine the mine shall in no case be thrown idle because of any death or funeral; in the event of a fatal accident in the mine, the employes may discontinue work for the remainder of the day, but work at the option of the operator shall be resumed the day following and continue thereafter. Nothing herein shall be construed to prevent an employe from absenting himself from work to attend the funeral of a fellow employe or member of his family.

Sec. 6. In consideration of the observances of the above rule, and the enforcement of same, it is agreed that the following schedule of death benefits shall be paid to all parties entitled to receive the same: For a man, \$50.00; for an employe's wife, \$50.00; for any member of the family over the age of fourteen years, excepting married children, \$35.00, the company to pay-one-half of the above amounts and the local union the remainder: Provided, however, that in the event of the mine being thrown idle on the day of any funeral by reason of an insufficient number of men reporting for work then the company shall not be expected to pay any part of the amounts herein named.

AGREEMENT OF ROLL COMMITTEE.

The undersigned having been appointed with authority of the Joint Convention, May 29, 1908, to adopt a uniform method for the payment of rolls, which report was to become a part of the contract then adopted, agree:

1st. That the following conditions and rules govern the payment for rolls in the Bituminous Mines in the State of Indiana.

2nd. That rolls in top or bottom coming up or down not to exceed six inches are not considered in this agreement, but when coming up or down from bottom or roof to exceed six inches, and it is not necessary to remove the same, the miner shall not be required to do so only for the width of the roadway.

3rd. That all rolls shall be paid for by cubical contents to be measured on each rib, measurement to be from point where coal quits to a point where coal begins, and at right angles with roll, and in such way as to ascertain average thickness.

4th. All material from rolls shall be removed by the miner. In narrow places where gobbing the dirt is impracticable, he shall load it in cars. In wider places where there is room to gob such material and the Company requires it gobbled, the miner shall do so: Provided, however, that he shall not be required to handle any such material more than once. Such material shall be removed at a sufficient distance from the face to allow the machine to operate unimpeded.

5th. All men working in roll shall have at least an equal turn of cars with the others on the run. This applies to the regular coal cars.

6th. The miner shall make height for the roadway, the height of the vein of coal when required to do so.

7th. The prices to be paid per cubic foot of roll, for chain machine, rolls 3 feet and over 2.6 cents per cubic foot; rolls 18 inches to 3 feet, 3.7 cents per cubic foot; rolls from 0 to 18 inches, 4.2 cents per cubic foot. For punching machines, rolls 3 feet and over, 2.8 cents; rolls 18 inches to 3 feet, 3.9 cents, and rolls 0 to 18 inches, $4\frac{1}{2}$ cents per cubic foot. Pick mining, rolls 3 feet and over, 3.4 cents per cubic foot; rolls 0 to 18 inches, $5\frac{1}{2}$ cents per cubic foot.

8th. These prices include the machine runner and loader, and shall be divided in the same proportion as regular work.

9th. The above scale does not apply to rolls that are so hard that they cannot be drilled with regular drilling machine. The thread bar to have not more than eight threads to the inch.

10th. Any dispute arising under this addition to our contract which cannot be settled by the means therein provided, shall be referred to this committee for settlement.

Indiana Bituminous Coal Operators' Association:

P. H. PENNA,
JOHN HEWITT,
Committee.

District No. 11, U. M. W. of A.:

W. D. VANHORN,
CHAS. FOX,
Committee.

AGREEMENTS.

Between the Block Coal Operators and the United Mine Workers of America, District No. 8, from April 1, 1910, to April 1, 1912.

BRAZIL BLOCK AGREEMENT.

1. Entered into this 12th day of April, 1910, between the Operators' Scale Committee of the Brazil Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.

Pick Scale and Yardage.

2. The price for mining screened block coal in the Block Coal District of Indiana shall be \$1.05 per ton of two thousand pounds, it being understood also that the price for digging unscreened coal shall be an equivalent of the price paid for screened coal.

3. Further details in the scale price for pick mining in the Block Coal District shall be as follows:

4. The payment for low coal shall be upon the following scale:

5. For all coal two feet ten inches and under three feet one inch, \$1.10 per ton.

6. For all coal under two feet ten inches, \$1.15 per ton.

7. The price of yardage shall be as follows:

Single yardage for coal 3 ft. 1 in. and over.....	\$1.05
Double yardage for coal 3 ft. 1 in. and over.....	2.10
Gob entries in coal 3 ft. 1 in. and over	1.57½
Gob entries in coal 3 ft. 1 in. and over without brushing.....	52½
Single yardage for coal 2 ft. 10 in. and under 3 ft. 1 in.....	1.10
Double yardage for coal 2 ft. 10 in. and under 3 ft. 1 in.....	2.20
Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in.	1.65
Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in. without brushing	55
Single yardage in coal below 2 ft. 10 in.....	1.15
Double yardage in coal below 2 ft. 10 in.....	2.31
Gob entries in coal below 2 ft. 10 in.	1.75
Gob entries in coal below 2 ft. 10 in. without brushing	58

All entries to be driven when required by the operator 5½ feet in the clear in height (and the miners agree to gob the dirt when they are not required to take it more than the distance of six rooms back from the last breakthrough, and when the dirt is hauled by a mule, then the miners agree to unload same at a distance of not more than eight rooms back from the last breakthrough from the face of the entry). This agreement shall apply to all the block coal mines in the Block Coal District, with the exception of the present No. 2 Superior Mine of the Zeller-McClellan Company, and in this mine the same conditions continue as were in force during the years just ending, viz.: The miners shall continue to gob the breakthroughs. 26 cents per yard shall be paid extra for all double yardage when the same is worked double shift, and 13 cents per yard for all single yardage when the same is worked double shift. Work on driving entries and drawing pillars may be by double shift at the option of the operator.

Day Men's Scale.

8. Inside day scale.

Track Layers	\$2.70
Trappers	1.19
Bottom Cagers	2.70
Drivers	2.70
Trip Riders	2.70
Water Haulers	2.70
Timbermen, where such are employed	2.70
All other inside day labor	2.70
Blacksmiths	2.99
All other outside day labor	2.12½

9. The firemen and night pumpers shall be paid at the rate of 26½ cents per hour for their labor. The above wage is based on an eight hour work day, but in the event the operator desires it, the firemen and night pumpmen are to work overtime to the extent of not more than two hours in any one day or shift. However, it is understood that in the event of an emergency the firemen and night pumpers will not limit their time, but continue work till such emergency is past.

10. The firemen and night pumpers shall be subject to the same rules and regulations as top men, and be in their class, and may be laid off in case the mine shall work parts of days, and the work of firemen and top men shall be interchanged if it is found to be in the interest of the employer so to do. For example: Where work can be performed by one man, the firing and any other work about the top shall be done by any one of the top men selected.

11. When the miner is working a deficient place and is being paid by the day, his pay shall be \$2.70 per day, and if he uses his own tools during such time he shall be paid 10 cents per day for the use of the same. The operator shall have the option of furnishing the tools for such work.

12. The price of blacksmithing shall be 11½ cents on the dollar.

13. The semi-monthly pay shall continue until the constitutionality of the law providing for weekly pays shall have been passed upon by the Supreme Court of Indiana and of the United States.

14. The operators agree to keep the bottom within six feet of the face at starting time and in no case shall exceed nine feet.

15. Inside day work may be done upon idle days, and in case of emergency, on overtime.

16. The miners agree to go to the magazine and get their powder as heretofore, take said powder to the top of the mine and place his number thereon. The operators agree to take charge of the powder and place it on the double parting below. It will then be delivered to the miners as heretofore. The Company will not be held responsible for the same.

Hours of Work.

17. The hour of beginning work in the morning shall be 7 a. m., with thirty minutes stop for dinner, and begin shooting at 3:30 p. m. from April 1st to October 1st of each year, and from October 1st to April 1st of each year the mines shall start at 7:30 a. m., with thirty minutes stop for din-

ner, and begin shooting at 4 p. m., and no shooting shall be done at any other time except by mutual consent between the bank boss and the bank committee, and in the event that the mine is to work half a day only, it shall be the duty of the mine boss to notify the mine committee of the fact.

The Officers and Miners' Board of District 8 hereby agree and pledge themselves to see that the men in the mines carry out the contract by working eight hours per day; and that they will put into effect and maintain rules which will compel the men to be at their working places on time and remain at work until the expiration of eight hours.

18. Eight hours a day means eight hours work in the mine at the usual working places for all classes of inside men. This shall be exclusive of the time required in reaching such working places in the morning and departing from the same at night.

19. The miners hereby agree to do all the propping in their rooms except setting the props required to break the bottom in shooting the same and if any props are loosened or displaced, thereby endangering the safety of the workmen, the miners agree to reset the same.

Setting Long Props.

20. The miners working at Zeller & McClellan's No. 4 mine and the Indiana Block Coal Company's mine at Saline, shall set all the props in their rooms and shall set all the props along the roadway. When bottom is blasted for the roads and long props are made necessary along the roadway, the miners agree to set them. And the operators agree to pay therefor 3 cents each for all long props so set by them. The companies above named shall provide the props of required length.

21. It is also agreed on the part of the operators not to require the miners to put down their own road, and bottom shooters may lay the road in the rooms when required.

22. The operators agree to give each miner as near as possible an equal turn of cars for coal, and not to allow any day hands to load coal on idle days, but in no case shall a turn apply to the handling of dirt, except in entries, unless otherwise specified in our agreement, but the operators agree to put in the mines a sufficient number of mules to remove all the coal and dirt therefrom. It is agreed that nothing herein shall conflict with the gobbing of dirt as hereinbefore provided. The operators will give an equal turn of work to all inside day men as near as practicable, who are competent, excepting tracklayers and timbermen, adjustment of turns to be semi-monthly.

23. No miner shall be discharged or discriminated against because of his refusal to do work by the day when called upon by the pit boss. If, by the absence or refusal to work of any day man, or men, work is likely to be interfered with, the mine committee, when called upon, shall assist the mine boss to furnish competent men in case he fails to secure them at the scale rate, so that the mine shall continue work.

24. It is also agreed not to require miners to load or clean falls unless they are caused by some fault of the miner not properly timbering his working place, or his having shot or caused his timber to become insecure, in which case it will be the duty of the miner to put his place in good order again.

25. Should the mine boss or superintendent at any time discharge a miner or mine laborer and upon investigation by the mine committee they believe there were not good and sufficient causes for so doing, they shall at once notify such boss or superintendent of their decision, and pending the matter being decided upon by the final board as provided in such cases, the management may at their option retain in their employ such person so discharged pending the final decision. If said board finds that the man was discharged without sufficient cause he shall be reinstated, and shall be paid his regular wage for all time lost by such discharge, but days which the mine was not in operation during this period shall not be reckoned as lost.

Settlement of Differences.

26. It is further agreed that if any differences arise between the operators and miners at any pit, settlement shall be arrived at without any stopping of work. If the parties immediately affected cannot reach an adjustment between themselves, the question shall be referred to the Executive Board of the United Mine Workers of America representing District No. 8, and an equal number of operators, whose action shall be final, but no operator or miner interested in the differences shall be a member of said committee. The Officers' and Miners' Board of District No. 8, United Mine Workers of America, hereby agree and pledge themselves to put into effect at the different Locals of the district, certain rules and regulations requiring men to be fined one dollar per day for the violation of the above clause, said fine to be checked off by the operators and turned over to District No. 8. On failure of said officers and board to accomplish their agreement to see that this part of the contract is observed, the following clause shall become effective, and from that time on it shall be binding and have full force and be a part of the contract, viz.: It is understood and agreed that when any of the workmen in and about a mine stop the same for the purpose of redressing a grievance, real or supposed, thus shutting the mine down contrary to this agreement, each employe shall pay to the owner of said mine the sum of \$1.00 per day during such shut down. The payment shall be deducted from each person through the pay roll and this agreement is authority for making such deduction. It is further agreed that no coal company, because of any grievance with any employe, real or supposed, shall stop the mine, and any company so shutting down its mine shall pay to each workman in and about the mine \$1.00 per day during such shut down.

27. The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any member of the United Mine Workers of America working in and around the mines, excepting the engineer working at such mine. In no case shall the mine committee have power to send day men home when needed by the operator, but the mine committee may bring any grievance before the joint board through their district officials.

Drivers' Rules.

28. Regarding Drivers: They shall take their mules to and from the stables and the time required in so doing shall not include any part of the day's labor, their work beginning when they reach the parting at which

they receive empty cars, and in no case shall the driver's time be docked while he is waiting for such cars at the point named, but when the men go into the mine in the morning they shall be entitled to two hours' pay whether or not the mine works the full two hours, and after the first two hours the men shall be paid for every hour thereafter by the hour, or for each hour's work or fractional part thereof. If for any reason the regular routine of work cannot be furnished inside labor for a portion of the first two hours, the operators may furnish other than the regular labor for the unexpired time.

29. But under no circumstances will the operators recognize or treat with the mine committee or any representative of the United Mine Workers of America during the suspension of work contrary to this agreement.

30. The Block Coal District of Indiana may continue the use of the diamond bar screen, the screens to be 72 feet superficial area, of uniform size, 1½ inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.

31. It is hereby further agreed that track layers may begin work on top before the usual time for hoisting coal in getting the track material ready to send down on the cage, and that the time required in doing so shall be a part of the eight hours' work.

32. In case of emergency work the mine boss shall consult with the mine committee, and if they approve of the work being done on overtime the men engaged thereon shall not be required to lay off until their time is equalized with the others working in such mine.

33. The Crawford Coal Company, in their mines at Center Point, may continue to do the brushing in the entries where the coal is three feet one inch and under in thickness.

34. The wages of the blacksmiths shall be \$2.99 per day at all of the mines, and in addition to his ordinary duties he shall do any other labor, and shall work at any mine owned by the company when required of him by the mine management, provided that he shall receive his regular wages therefor.

35. All Local rules regarding the number of cars required above the tiple to be abolished.

36. In the event of death by accident in the mine, the miners shall have the privilege of discontinuing work for the remainder of that day, but at the option of the operators work shall be resumed on the following day.

37. The miners shall not stop work on the day of a funeral where death is the result of an accident in the mine, or otherwise, but instead men may absent themselves from work for the purpose of attending the funeral, and except in case of fatal accidents as above, the mine shall not in any case be thrown idle because of any death or funeral.

Funeral Benefits.

38. In consideration of the enforcement of this agreement, referring to funerals of employes only, of any particular mine, and not otherwise, it is mutually agreed that an assessment of 3 cents per month shall be deducted on the payrolls from each employe of District No. 8, members of the United

Mine Workers of America. Said deduction, when made, shall be turned over to the Secretary-Treasurer of District No. 8, together with an equal sum to be paid to the operators of said district. Said fund shall be deposited in the Citizens National Bank, Brazil, Indiana. On the death of an employe only the sum of \$50.00 shall be paid from said fund to the family of the deceased or to the legal representative thereof. Said payments shall be made by checks only, and said checks shall be countersigned by the Operators' Commissioner of District No. 8. In the event that the above named assessment of 3 cents per man per month is insufficient to pay \$50.00 to each party entitled thereto, an increase in such assessment shall be made by the joint board of miners and operators convened for that purpose. Also, should the assessment prove to accumulate a fund greater than is necessary to pay the funeral benefits required, the assessment shall be suspended for a time till the fund is reduced to the sum of \$100.00, or two funeral benefits.

Hoisting Engineers' Scale.

39. On and after April 1, 1910, until April 1, 1912, the scale of hoisting engineers throughout the Block Coal District, or District No. 8, shall be as follows: Where one engineer is employed the compensation shall be eighty-eight dollars and fifty-eight cents (\$88.58) per month, and where two engineers are required the first engineer shall receive eighty-eight dollars and fifty-eight cents (\$88.58) per month, the second seventy-six dollars and seventy-seven cents (\$76.77) per month, and when they change week about, eighty-two dollars and sixty-eight cents (\$82.68) per month.

40. It is agreed on the part of the engineers to be at their work in time to lower the men and mules, and remain a sufficient length of time after the regular working hour to hoist the men and mules from the mine. Also to keep up all repairs on the machinery, including pumps in the mine.

41. It is mutually agreed that a licensed engineer shall be employed at all times when steam is required at the throttle. Provided, however, that in all cases where the mine is not hoisting coal, or the machines are not operated, then, in all such cases, the engineers are required to do their own firing, it being understood that this provision does not apply to any case where the work of the mine may be stopped in the midst of any one shift. Nor does it cover any case where the fireman is required to assist in the washing or cleaning out of the boilers on Sunday.

42. It is fully understood and agreed upon the part of the United Mine Workers of America that the engineers will not under any circumstances allow affiliation with any labor organization to interfere with or prevent their being on duty at any and all times required by the operators, and that they will not suspend work in sympathy with any organization, and, further, that they will, during the continuance of this contract, at all times fully protect all the company's property under their care, and that they will operate fans and pumps, and lower and hoist such men or supplies as may be required to protect the company's property and any and all coal that may be required to keep up the steam at the company's plant. But it is understood that the operators will not ask them during this period to hoist any coal produced by non-union labor for sale on the market.

43. No engineer shall lay off or exchange shifts without the consent of the operators

44. It is also agreed that in case of sickness or unexpected absence of the engineer, any other engineer or engineers shall perform his duty; and if desired by them his wages for time so absent shall revert to the engineer performing such duty.

45. It is further agreed no hoisting engineer shall be subject to the interference or dictation of the mine committee, nor the local unions, but all differences between the engineer and his employer shall be adjusted by the officers of the United Mine Workers of America and employer interested.

46. It is also agreed upon the part of the operators that they will enforce a rule forbidding the entering of the engine room by loafers and disinterested parties, and that they will have cards printed and placed in conspicuous places to this effect.

47. This contract is entered into in good faith by both parties and there is to be no deviation from it by the operators, miners, laborers, or any local union.

Committee on Behalf of the Operators for the Block Coal District:

JOHN CHESTERFIELD, JR.
JAS. H. MCCLELLAND,
WILLIAM M. ZELLER,
WILLIAM E. EPERT,
W. W. RISHER,
W. PAUL ZIMMERMANN.
C. EDW. HOFFMAN,
H. W. JENKINS.

Executive Committee District No. 8, United Mine Workers of America,
for Block Coal Mines:

GEORGE MORGENTHAUER,
W. T. HILL,
JAMES D. HOLDEN,
JAMES FOSTER,
THOMAS SAVANT.

MACHINE MINING SCALE.

1. Contract between the Machine Operators of the Block Coal District and the Executive Board of District No. 8, United Mine Workers of America, governing prices and conditions of mining in machine mines, Block Coal District.

2. Entered into this 12th day of April, 1910, and continuing until April 1, 1912, between the Operators of Machine Mines of the Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.

3. The price for loading, shooting, timbering, taking care of all draw slate that is four (4) inches and under in thickness, in rooms and entries shall be fifty-seven and one-half ($57\frac{1}{2}$) cents per ton.

4. Price for entry driving, 6 to 9 feet wide, fifty-six (56) cents per yard.

5. Price for entry driving, 9 to 12 feet wide, thirty-four (34) cents per yard.

6. All loaders agree to keep the bug dust and draw slate back 14 feet from the working face.

7. All entries more than twelve (12) feet in width shall be paid same as rooms, except where entries are driven more than twelve (12) feet wide, a road shall be placed in the center, or when the road is placed on the rib the same shall be paid as gob entry.

8. Machine runners and helpers to be paid twenty-five (25) cents per ton and when working by the day, machine runners to be paid \$3.20 per day, helpers \$2.85, motormen, \$3.20.

9. Entry driving, 6 to 9 feet wide, machine runner to be paid 26 cents per yard.

10. Entry driving, 9 to 12 feet wide, machine runner to be paid 17 cents per yard.

11. It is further agreed that where there is not sufficient room to gob the bug dust and draw slate, the loader will load it in the bank cars and the company will unload it. The operators agree to keep all bottom in rooms 4 feet from the face at starting time and in no case shall it exceed 6 feet.

12. It is understood that there shall be nothing paid for room turning or low coal and there shall be nothing charged for blacksmithing.

13. There shall be no discrimination against any employee.

That the system of loading coal in machine mines be on the following basis, to wit:

1. That one man shall have the right to two places where he can take care of the same.

2. That two men shall have the right to three places where they can take care of the same.

3. All others one place.

4. When a man is off work for more than one day the mine boss shall have a right to put a man in the places if it is necessary, providing the man leaves the places in the same condition as near as possible as he found them.

5. The Block Coal District of Indiana may continue the use of the Diamond bar screen, the screen to be seventy-two (72) feet superficial area, of uniform size, one and one-quarter ($1\frac{1}{4}$) inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.

6. This agreement to become a part of the agreement entered into the 12th day of April, 1910, between the Operators' Scale Committee of the Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.

On behalf of the Machine Operators of the Block Coal District:

JOHN CHESTERFIELD, JR.

WILLIAM E. EPERT,

E. EDW. HOFFMAN.

On behalf of the Executive Board District No. 8, United Mine Workers of America:

GEORGE MORGANTHALER,

W. T. HILL,

JAMES D. HOLDEN,

JAMES FOSTER,

THOMAS SAVANT.

TABLE

Showing by Counties the Name of Mine, Number of Tons of Screened, Slack, Nut and Mine Run Coal, Total Tons of all Grades of Coal Produced and the Distribution Thereof, the Production of Block and Bituminous Coal, Each Being shown Separately, as is the Machine and Pick or Hand-Mined Coal.

BLOCK COAL MACHINE MINES.

PARKE COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Mary No. 1.....	7,237	844	.....	8,081	3,928	512	.....	4,440	1,106	11,415	\$8,578 78	\$3,710 16	\$2,951 86	\$15,240 80
Total.....	7,237	844	.....	8,081	3,928	512	.....	4,440	1,106	11,415	\$8,578 78	\$3,710 16	\$2,951 86	\$15,240 80

VIGO COUNTY.

Plymouth No. 1.....	50,934	12,953	.....	63,887	23,561	6,081	.....	29,642	32,397	61,132	\$69,865 90	\$31,281 10	\$8,614 00	\$109,761 00
Domestic block No. 1.....	46,257	11,647	.....	57,904	.....	.....	.....	.....	11,429	46,475	46,537 41	24,534 70	7,562 25	78,634 36
Mary No. 2.....	43,611	11,221	.....	54,832	11,435	4,292	.....	15,727	10,155	60,404	57,607 37	17,553 16	8,212 10	83,372 63
Total.....	140,802	35,821	.....	176,623	34,996	10,373	.....	45,369	53,981	168,011	\$174,010 68	\$73,368 96	\$24,388 35	\$271,767 99
Total machine mined block coal.....	148,039	36,665	.....	184,704	38,924	10,885	.....	49,809	55,087	179,426	\$182,589 46	\$77,079 12	\$27,340 21	\$287,008 79

BLOCK HAND OR PICK MINES.
CLAY COUNTY.

NAME OF MINE.	PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Brazil No. 1.....	1,261	250	.....	1,511	1,511	.....	\$1,414 42	\$1,107 00	\$300 44	\$2,821 86
Brazil No. 4.....	53,031	10,615	.....	63,646	31,823	31,823	60,863 78	28,671 65	10,459 90	99,995 33
Superior No. 4.....	24,385	6,250	1,171	31,806	15,553	16,253	31,151 89	21,213 79	9,938 10	62,303 78
Crawford No. 2.....	12,102	2,391	844	15,337	5,119	10,218	13,590 78	8,433 73	3,139 91	25,164 42
Crawford No. 6.....	25,718	4,382	1,767	31,867	8,268	23,599	35,645 74	11,786 55	4,939 90	52,372 19
Crawford No. 9.....	1,863	450	.....	2,313	2,313	.....	1,867 70	638 16	750 69	3,256 55
Crawford No. 10.....	60,888	15,801	430	77,119	23,140	53,979	73,371 51	22,693 41	6,906 63	102,971 55
Indiana Block No. 1.....	11,717	2,658	7,255	21,630	4,818	16,812	20,048 02	6,719 83	3,671 37	30,439 22
Plymouth No. 2.....	35,528	10,548	.....	46,076	23,038	23,038	410,093 15	13,207 36	5,032 05	59,332 56
Pyrah.....	Working	less than ten men	.....	.....	.....	.....	.....	.....	.....	.....
Monarch.....	.....	.....	5,749	5,749	5,749	.....	6,035 10	5,364 43	5,600 68	17,000 21
Eureka No. 5.....	46,701	10,336	.....	57,037	18,479	38,558	51,289 67	18,321 37	7,110 87	76,721 91
Treager.....	2,517	396	.....	2,913	2,913	.....	3,131 94	801 70	519 79	4,453 43
Harrison No. 5.....	Not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wizard.....	34,143	6,316	93	40,552	20,276	20,276	40,870 59	11,722 07	3,751 00	56,343 66
Progressive.....	3,397	.....	427	3,824	3,824	.....	2,419 57	3,680 12	1,045 98	7,145 67
Schefferman.....	Not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crawford No. 11.....	3,405	844	.....	4,249	4,249	.....	5,948 83	3,938 82	1,654 03	11,541 68
Bee Ridge.....	Not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....
German.....	Not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	316,656	71,237	17,736	405,629	171,073	234,556	\$388,742 69	\$158,299 99	\$64,821 34	\$611,864 02

PARKE COUNTY.

Brazil Block No. 9.....	31,168	6,300	.....	37,468	8,812	28,656	\$36,842 35	\$15,475 44	\$7,359 82	\$59,677 61
Brazil Block No. 12.....	3,634	725	.....	4,359	1,446	2,913	3,804 90	1,091 98	748 14	5,645 02
Superior No. 2.....	36,056	8,825	4,832	49,713	.....	49,713	43,702 96	17,444 08	9,090 95	70,237 99
Superior No. 3.....	48,650	12,350	.....	61,000	30,500	30,500	56,429 73	16,008 12	8,254 61	80,692 46
Superior No. 5.....	66,477	16,300	.....	82,777	.....	82,777	72,265 11	11,202 79	10,600 81	94,068 71
Moore.....	Idle.	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. B.....	Idle.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	185,985	44,500	4,832	235,317	40,758	194,559	\$213,045 05	\$61,222 41	\$36,054 33	\$310,321 79
Total hand mined block coal....	502,641	115,737	22,568	640,946	211,831	429,115	\$601,787 74	\$219,522 40	\$100,875 67	\$922,185 81
Total machine mined block coal.	186,963	47,550	.....	234,513	55,087	179,426	\$182,589 46	\$77,079 12	\$27,340 21	\$287,008 79
Total block coal.....	689,604	163,287	22,568	875,459	266,918	608,541	\$784,377 20	\$296,601 52	\$128,215 88	\$1,209,194 60

GREENE COUNTY.

Dickason.....	31,463	13,799	7,869	53,131	37,459	15,672	\$34,128 45	\$8,920 12	\$4,957 37	\$48,005 94
Sponsler.....	24,554	12,060	34,597	71,211	49,935	21,276	42,416 27	14,854 67	5,605 79	62,876 73
Antioch.....	Idle.									
North Linton.....	Idle.									
Vandalia No. 3.....	Idle.									
Vandalia No. 4.....	56,962	24,584	98,859	180,405	168,388	12,017	116,531 74	26,908 03	8,238 69	151,678 46
Queen.....	2,030	2,030	109,231	113,291	68,524	44,767	70,310 56	11,454 74	7,381 25	89,146 55
Cherry Hill.....	13,885	9,933	6,865	30,683	18,287	12,396	18,977 00	2,677 35	2,343 73	23,998 08
Letsinger.....	21,950	11,603	47,713	81,266		81,266	58,745 08	4,827 16	7,330 84	70,903 08
Monarch.....	Idle.									
Enterprise.....			5,772	5,772	5,772		2,300 00	849 30	625 00	3,774 30
Total.....	150,844	74,009	310,906	535,759	348,365	187,394	\$343,409 10	\$70,491 37	\$36,482 67	\$450,383 14

GIBSON COUNTY.

Oswald.....	69,044	79,328	76,486	224,858	224,858		\$133,237 09	\$38,811 82	\$23,786 93	\$195,835 84
Fort Branch.....	13,524	11,503	14,648	39,675	27,975	11,700	25,460 16	8,814 27	6,292 32	40,566 75
Francisco.....			20,568	20,568		20,568	14,972 68	2,491 74	1,419 60	18,884 02
Total.....	82,568	90,831	111,702	285,101	252,833	32,268	\$173,669 93	\$50,117 83	\$31,498 85	\$255,286 61

KNOX COUNTY.

Wheatland.....			62,421	62,421	62,421		\$33,891 65	\$7,583 11	\$4,760 37	\$46,235 13
Total.....			62,421	62,421	62,421		\$33,891 65	\$7,583 11	\$4,760 37	\$46,235 13

PARKE COUNTY.

Vandalia No. 316.....	16,632	10,302	4,721	31,655	26,939	4,716	\$21,323 56	\$9,351 37	\$2,347 49	\$33,022 42
Fairview.....	45,401	42,317	29,192	116,910	52,392	64,518	86,782 99	25,069 23	9,256 67	121,108 89
Total.....	62,033	52,619	33,913	148,565	79,331	69,234	108,106 55	34,420 60	11,604 16	154,131 31

PERRY COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Lincoln.....	Idle.									
Total.....										

PIKE COUNTY.

Ayrshire No. 4.....	76,614	71,044	46,910	194,568	66,488	128,080	\$118,712 94	\$28,097 28	\$11,948 77	\$158,758 99
Muren.....	Idle.									
Blackburn No. 1.....			43,341	43,341	43,341		263,95 15	8,065 39	3,460 69	37,921 23
Blackburn No. 2.....	11,874	12,235	34,574	58,683	33,797	24,886	34,576 82	9,879 33	5,632 59	50,088 74
Littles.....	40,042	64,152	29,124	133,318	40,873	92,445	78,302 13	24,440 18	8,024 42	110,766 73
Winslow No. 4 and 5.....										
Hartwell No. 1.....	Idle.									
Hartwell No. 2.....	Idle.									
Hartwell No. 3.....	Idle.									
Total.....	128,530	147,431	153,949	429,910	184,499	245,411	\$257,987 04	\$70,482 18	\$29,066 47	\$357,535 69

SULLIVAN COUNTY.

Superior.....	9,370	7,603	5,093	22,066		22,066	\$11,931 25	\$5,108 57	\$2,618 66	\$19,658 48
Con.No. 32.....	106,199	51,399	43,382	200,980		200,980	123,954 29	39,490 23	12,300 33	175,744 85
Citizens.....	3,674	1,618	4,110	9,402		9,402	6,452 04	1,910 03	1,648 62	10,010 69
Keystone.....	36,922	32,276	10,656	79,854	37,039	42,815	52,021 60	18,489 45	7,621 41	78,132 46
Viola.....	29,837	25,167	18,284	73,288	23,283	50,005	47,745 67	16,316 71	7,241 41	71,303 79
Freeman.....	33,587	16,765	11,731	62,083	14,123	47,960	41,529 61	14,896 52	7,331 74	63,757 87
Hudson.....	Idle.									
Bellevue.....			46,244	46,244	46,244		28,614 29	8,119 35	6,803 22	43,536 86
Larsh.....	Less than	ten men....								
Hamilton.....	3,687	2,792	431	6,910		6,910	6,022 16	4,054 72	3,414 95	13,491 83
Total.....	223,276	137,620	139,931	500,827	130,091	370,736	\$318,270 91	\$108,385 58	\$48,980 34	\$475,636 83

VANDERBURGH COUNTY.

Diamond.....	20,664	11,533	4,941	37,138	37,138	.....	\$25,410 77	\$5,521 38	\$4,430 77	\$35,362 92
Ingleside.....	4,591	12,623	34,291	51,505	.....	51,505	28,280 93	14,970 18	4,496 84	47,747 95
Sunnyside.....	26,113	60,690	7,418	94,221	77,974	16,247	29,210 00	7,290 00	7,183 00	43,683 00
Unity.....	35,085	27,867	78,275	141,227	.....	141,227	86,946 71	25,848 48	10,524 90	123,320 09
First Avenue.....	25,062	14,646	6,188	45,896	45,896	.....	30,312 00	9,674 41	5,434 11	145,420 52
Total.....	111,515	127,359	131,113	369,987	161,008	208,979	\$200,160 41	\$63,304 45	\$32,069 62	\$295,534 48

VERMILLION COUNTY.

Dering No. 8.....	101,283	86,945	87,915	276,143	.....	276,143	\$147,828 90	\$70,162 42	\$9,551 45	\$227,542 77
Eureka.....	.....	.....	2,763	2,763	2,763	.....	1,718 00	554 45	347 31	2,619 76
Crown Hill No. 1.....	63,683	25,093	180,465	269,241	66,486	202,755	175,991 37	54,494 10	9,205 92	239,691 39
Crown Hill No. 2.....	48,985	16,526	179,022	244,533	48,474	196,059	166,646 12	35,240 77	6,794 91	208,681 80
Maple Valley.....	13,758	9,050	14,976	37,784	.....	37,784	26,578 00	5,618 85	2,629 60	34,826 45
Buckeye No. 2.....	49,620	39,240	148,014	236,874	.....	236,874	144,113 19	50,106 25	9,548 25	203,767 69
Klondyke.....	43,210	33,319	190,099	266,628	.....	266,628	166,571 84	27,041 35	10,108 05	203,721 24
Total.....	320,539	210,173	803,254	1,333,966	117,723	1,216,243	\$829,447 42	\$243,218 19	\$48,185 49	\$1,120,851 10

VIGO COUNTY.

Vandalia No. 66.....	72,157	56,274	7,241	135,672	107,068	28,604	\$77,121 78	\$30,800 32	\$8,401 58	\$116,323 68
Vandalia No. 67.....	75,235	36,872	114,480	226,587	118,356	108,231	147,990 50	39,239 51	12,447 26	\$99,677 27
Vandalia No. 81.....	35,579	27,870	3,174	66,623	37,978	28,645	39,864 15	17,067 23	7,739 80	64,671 18
Forrest.....	62,458	64,365	89,874	216,697	.....	216,697	144,387 96	52,968 43	17,117 26	214,473 65
Atherton.....	.....	.....	129,492	129,492	.....	129,492	79,879 05	41,082 80	9,827 09	130,788 94
Riverside.....	6,185	2,647	84,818	93,650	55,175	38,475	63,543 00	14,290 35	6,596 50	84,429 55
Lower Vein No. 1.....	87,066	57,307	48,058	192,431	192,431	.....	109,167 46	34,055 13	9,518 75	152,741 34
Miami No. 2.....	2,210	1,729	21,134	25,073	.....	25,073	15,211 75	5,724 41	2,089 25	25,025 41
Miami No. 4.....	71,452	183,810	46,895	302,157	.....	302,157	189,659 60	57,448 98	10,686 61	257,795 19
Miami No. 5.....	27,556	20,443	34,028	82,027	.....	82,027	53,989 50	19,239 92	8,787 98	82,017 10
Miami No. 6.....	.....	.....	73,331	73,331	.....	73,331	53,662 01	16,364 57	9,175 48	79,202 06
Fauvre No. 2.....	25,075	21,689	21,758	68,522	31,210	37,312	37,478 75	9,252 92	4,099 80	50,831 47
Deep Vein No. 5.....	Not working	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ray No. 2.....	91,313	45,374	104,499	241,186	94,564	146,622	162,539 46	42,267 37	8,751 79	213,558 62
Sugar Valley.....	28,050	14,869	16,536	59,455	59,455	.....	39,181 31	7,222 92	5,050 01	51,454 24
Dering No. 6.....	48,763	23,160	212,473	284,396	.....	284,396	168,111 63	59,851 93	8,103 42	236,066 98
National.....	16,284	7,606	19,960	43,850	43,850	.....	26,802 77	12,981 20	6,174 31	45,958 28
Pittsburg No. 1.....	88,162	62,169	85,474	235,805	94,768	141,037	149,806 30	40,705 07	9,099 11	199,610 48
Total.....	737,545	626,184	1,113,225	2,476,954	834,855	1,642,099	\$1,558,396 98	\$500,563 06	\$143,665 70	\$2,202,625 74

WARRICK COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
De Forrest.....	3,010	1,500	19,540	24,050	24,050	.....	\$13,703 78	\$4,180 54	\$1,766 09	\$19,650 41
Brizius.....	6,427	4,185	7,889	18,501	18,501	.....	10,556 01	3,828 87	3,051 44	17,436 32
Elberfeld.....	3,460	677	41,977	46,114	20,477	25,637	31,393 81	6,767 21	3,997 95	42,158 97
Epworth.....	Working	less than ten	men.....	43,685	43,685	.....	25,308 14	2,776 77	1,789 54	29,874 45
Korff.....	.....	.....	.....	38,766	38,766	.....	22,484 65	2,979 17	1,561 06	27,024 88
Sargent.....	Working	less than ten	men.....	58,031	58,031	.....	41,681 86	45,735 90	5,142 50	92,560 26
Red Shaft.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Castle Garden.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	12,897	6,362	209,888	229,147	203,510	25,637	\$145,128 25	\$66,268 46	\$17,308 58	\$228,705 29
Total hand bituminous.....	1,909,796	1,508,921	3,177,214	6,595,931	2,551,353	4,044,578	\$4,128,114 68	\$1,243,364 64	\$420,890 55	\$5,792,369 87

BITUMINOUS MACHINE MINES.

CLAY COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Lewis	21,190	7,775	25,340	54,305	17,800	.....	9,722	27,522	29,404	52,423	\$48,836 30	\$19,197 69	\$11,046 61	\$79,080 60
Vivian No. 2	11,349	6,198	38,450	55,997	6,065	2,463	19,875	28,403	45,437	38,963	44,523 93	25,658 96	8,871 60	79,054 49
Island Valley No. 4. . .	78,091	33,564	78,695	190,350	15,004	6,177	14,413	35,594	65,981	159,963	114,853 95	31,501 14	13,944 63	160,299 72
Total	110,630	47,537	142,485	300,652	38,869	8,640	44,010	91,519	140,822	251,349	\$208,214 18	\$76,357 79	\$33,862 84	\$318,434 81

GREENE COUNTY.

Black Creek	43,896	16,393	6,124	66,413	10,955	4,330	1,649	16,934	56,205	27,142	\$44,804 61	\$17,483 31	\$7,124 59	\$69,412 51
Vandalia No. 2 .....	.....	.....	101,545	101,545	.....	.....	53,478	53,478	134,713	20,310	81,762 30	26,767 65	9,279 17	117,809 12
Vandalia No. 5	68,595	30,507	6,161	105,263	39,010	19,505	3,244	61,759	125,773	41,249	95,545 76	34,703 79	14,134 99	144,384 54
Vandalia No. 8	121,947	61,607	39,763	223,317	2,934	1,454	673	5,061	184,643	43,735	123,140 28	47,343 12	14,904 34	185,387 74
Vandalia No. 9	93,734	44,251	188,477	326,462	2,911	1,454	6,574	10,939	283,993	53,408	171,828 61	64,251 26	17,035 26	253,115 13
Vandalia No. 20	39,182	19,411	10,964	69,557	54,026	29,177	4,183	87,386	144,753	12,190	88,077 25	18,105 45	8,837 56	115,020 26
Vandalia No. 21	69,306	30,317	49,207	148,830	3,598	798	2,943	7,339	136,644	19,525	82,030 82	22,133 00	11,800 68	115,964 50
Gilmour	27,871	14,104	138,625	180,500	.....	.....	.....	.....	180,500	.....	95,971 08	46,861 72	15,882 13	158,714 93
Lattas Creek	113,935	22,809	180,193	316,937	.....	.....	.....	.....	.....	316,937	157,743 76	61,503 29	18,957 62	238,204 67
Summitt No. 2	51,797	59,356	104,784	215,937	.....	.....	.....	.....	.....	.....	111,867 82	54,235 45	13,531 79	179,635 06
Green Valley	67,682	48,737	158,952	275,371	.....	.....	.....	.....	.....	.....	143,123 51	42,168 80	12,878 29	198,170 60
North West	43,033	26,323	61,493	130,849	7,505	4,226	12,367	24,098	154,947	.....	69,911 09	24,659 99	11,522 96	106,094 04
Twin No. 4	4,011	1,200	38,272	43,483	.....	890	254	10,731	45,755	9,603	32,002 15	15,602 85	2,788 50	50,393 50
Twin No. 5	50,819	17,522	112,292	180,633	10,904	4,357	26,604	41,865	176,768	45,730	113,855 35	24,981 35	11,400 75	150,237 45
Total	795,808	392,537	1,196,852	2,385,197	132,733	65,555	122,446	320,734	1,954,952	750,979	\$1,411,664 39	\$500,801 03	\$170,078 63	\$2,082,544 05

KNOX COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Knox.....	40,570	22,576	119,963	183,109	2,080	1,147	7,896	11,123	73,145	121,087	\$92,984 62	\$32,473 44	\$14,241 25	\$139,699 31
Lynn.....	5,965	2,533	37,466	45,964	5,120	2,855	41,471	49,446	67,024	28,386	49,682 88	22,290 68	8,057 28	80,030 84
Freeman.....	96,833	38,824	104,820	240,477	16,537	3,166	91,045	110,748	202,471	148,754	151,501 87	43,505 30	17,337 71	212,344 88
Bicknell.....	6,099	2,265	2,511	10,875	.....	.....	.....	.....	10,875	.....	5,914 07	2,580 72	3,283 77	11,778 56
Tecumseh.....	155,013	67,729	108,083	330,825	325	.....	555	880	179,432	152,273	179,245 88	35,766 65	14,990 46	230,002 99
Total.....	304,480	133,927	372,843	811,250	24,062	7,168	140,967	172,197	532,947	450,500	\$479,329 32	\$136,616 79	\$57,910 47	\$673,856 58

PARKE COUNTY.

Parke No. 12.....	.....	.....	22,961	22,961	.....	.....	.....	.....	.....	22,961	\$25,524 66	\$6,638 24	\$4,470 30	\$36,633 20
Parke No. 11.....	.....	.....	126,113	126,113	.....	.....	76,404	76,404	60,469	142,048	105,665 40	41,027 76	14,665 04	161,358 20
Lyford No. 1.....	14,168	2,164	89,514	105,846	.....	.....	.....	.....	.....	105,846	54,300 50	35,600 61	12,674 34	102,575 45
Total.....	14,168	2,164	238,588	254,920	.....	.....	76,404	76,404	60,469	270,855	\$185,490 56	\$83,266 61	\$31,809 68	\$300,566 85

PIKE COUNTY.

Ayrshire No. 5.....	52,163	32,309	22,273	106,745	.....	.....	.....	.....	.....	48,768	57,977	\$52,580 33	\$15,069 97	\$7,526 06	\$75,176 36
Peacock No. 2.....	36,437	23,543	3,317	63,297	.....	.....	.....	.....	.....	38,456	24,841	34,903 31	11,357 84	7,005 28	53,266 43
Total.....	88,600	55,852	25,590	170,042	.....	.....	.....	.....	.....	87,224	82,818	\$87,483 64	\$26,427 81	\$14,531 34	\$128,442 79

SULLIVAN COUNTY.

Rainbow	59,474	53,890	54,057	167,421					167,421	\$95,280 69	\$37,481 81	\$17,330 81	\$150,093 31
Phoenix No. 4	60,493	47,402	76,216	184,111					184,111	106,972 29	49,617 78	16,965 73	173,555 80
Hocking	32,490	18,574	76,295	127,359					127,359	61,596 03	28,905 37	10,389 90	100,891 30
Sunflower	101,758	44,820	107,756	254,334					26,002	288,332	135,993 84	18,802 32	36,689 59
Consolidated No. 25	52,765	41,176	32,677	126,618					16,816	109,802	64,783 21	54,990 57	14,254 62
Consolidated No. 26	7,678	3,501		11,179					5,513	5,666	24,313 24	8,083 06	2,605 40
Consolidated No. 28	Idle												
Consolidated No. 30	65,854	51,007	24,645	141,506					26,063	115,443	75,880 68	49,162 80	14,931 89
Consolidated No. 33	166,173	59,115	115,348	340,636						340,636	186,160 29	111,712 81	19,134 06
Vandalia No. 10	128,567	43,017	184,199	355,783					304,300	51,483	179,430 90	73,236 07	19,225 41
Jackson Hill No. 2	74,584	224,346	79,853	378,783					291,703	87,080	97,559 33	47,549 83	10,710 66
Jackson Hill No. 4	117,195	82,322		199,517					91,109	108,408	107,212 98	48,477 59	10,743 85
Dering No. 13	26,485	12,377	76,697	115,559					115,559		53,239 12	36,393 64	9,035 44
Dering No. 14	77,110	62,363	26,020	165,493						165,493	86,856 05	62,530 98	15,319 40
Mammoth	97,005	57,243	56,038	210,286						210,286	119,369 85	46,578 24	15,485 08
C. & I	18,044	8,122	16,185	42,351	43,224	20,486	53,188	116,898	159,249		106,661 17	39,587 02	7,509 52
Shirley Hill No. 3	47,284	23,267	36,296	106,847	30,199	16,056	22,170	68,425	175,272		106,260 26	25,061 74	7,526 00
Little Giant	21,952	10,859	87,496	120,307	26,410	13,311	119,390	159,111	171,141	108,277	172,516 26	58,399 44	12,133 90
Clover Leaf	13,940	7,762	4,374	26,076	57,958	35,008	16,566	109,532	135,608		96,197 71	48,570 13	8,564 26
Pearl	23,728	12,043	22,749	58,520					21,460	37,060	29,556 10	13,912 93	7,926 28
Reliance	32,970	13,325	45,177	91,472	134	56	253	443	4,933	86,982	57,123 71	27,236 73	11,771 73
Black Hawk	14,179	8,834	16,272	39,285	39,548	31,210	49,736	120,494	48,225	111,554	82,752 72	17,309 36	9,916 04
Total	1,233,728	885,365	1,138,350	3,263,443	197,473	116,127	261,303	574,903	1,592,953	2,245,393	\$2,045,715 43	\$903,600 22	\$278,169 57

VERMILLION COUNTY.

Crown Hill No. 3	111,039	35,964	97,081	244,084					55,454	188,630	\$163,776 02	\$55,445 10	\$110,88 93	\$230,310 05
Oak Hill	2,780	1,905	2,365	7,050	24,314	16,945	30,996	72,255		79,305	52,551 56	15,598 45	6,320 35	74,470 36
Crown Hill No. 4	12,637	4,212	2,077	18,926						18,926	12,074 26	7,150 28	1,625 05	20,849 59
Total	126,456	42,081	101,523	270,060	24,314	16,945	30,996	72,255	55,454	286,861	\$228,401 84	\$78,193 83	\$19,034 33	\$325,630 00

VIGO COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Vandalia No. 69.....	32,084	20,166	2,731	54,981	68,992	39,710	7,190	115,892	122,553	48,320	\$101,538 73	\$41,940 66	\$10,770 04	\$154,249 43
Wabash.....	21,620	11,462	195,674	228,756	25,155	1,374	25,155	51,684	164,435	115,905	146,278 75	38,038 10	10,693 00	195,009 85
Minshall.....	7,619	2,804	77,189	87,612	10,568	4,413	92,171	107,152	141,253	53,511	123,689 50	34,518 60	11,878 75	170,086 85
Deep Vein No. 4.....	70,712	37,307	64,098	172,117	12,833	7,174	15,355	35,362	102,141	105,338	113,457 47	43,982 27	10,573 20	168,012 94
Grant No. 3.....	35,391	28,941	90,195	154,527	17,858	12,357	14,858	45,073	.....	199,600	118,158 92	47,860 43	18,992 55	185,011 90
Glen Ayre No. 1.....	93,533	50,672	117,132	261,337	.....	.....	.....	.....	88,500	172,837	132,983 79	40,059 09	12,857 80	185,900 68
Glen Ayre No. 2.....	32,952	12,040	31,335	76,327	13,913	5,821	7,481	27,215	36,070	67,472	62,789 95	11,637 07	5,763 78	80,190 80
Total.....	293,911	163,392	578,354	1,035,657	149,319	70,849	162,210	382,378	654,952	763,083	\$798,897 11	\$258,036 22	\$81,529 12	\$1,138,462 45

WARRICK COUNTY.

Big Four.....	8,954	4,829	100,826	114,609	.....	.....	.....	.....	81,496	33,113	\$55,841 86	\$9,819 52	\$11,611 86	\$77,273 24
Electric.....	.....	.....	46,457	46,457	.....	.....	23,726	23,726	47,873	22,310	38,188 00	11,137 32	5,333 82	54,659 14
Dawson.....	7,290	6,298	37,627	51,215	.....	.....	.....	.....	8,650	42,565	27,170 59	8,654 22	3,738 25	39,563 06
Erie Canal.....	.....	.....	75,777	75,777	.....	.....	.....	.....	42,827	32,950	35,215 17	11,053 71	5,262 83	51,531 71
Polk No. 5.....	.....	.....	154,591	154,591	.....	.....	.....	.....	154,591	.....	77,784 05	14,586 05	10,421 65	102,791 75
John Bull.....	.....	.....	5,868	5,868	.....	.....	.....	.....	2,174	3,694	2,100 00	1,452 52	1,032 08	4,584 60
Total.....	16,244	11,127	421,146	448,517	.....	.....	23,726	23,726	337,611	134,632	\$236,299 67	\$56,703 34	\$37,400 49	\$330,403 50
Total machine bituminous mined coal.....	2,990,025	1,733,982	4,215,731	8,939,738	566,770	285,284	862,062	1,714,116	5,417,384	5,236,470	\$5,681,496 14	\$2,120,003 64	\$724,326 47	\$8,525,826 25
Total hand bituminous mined coal.....	.....	.....	.....	.....	1,909,796	1,508,921	3,177,214	6,595,931	2,551,353	4,044,578	\$4,128,114 68	\$1,243,364 64	\$420,890 55	\$5,792,369 87
Total bituminous coal.....	5,466,591	3,528,187	8,255,007	17,249,785	.....	.....	.....	.....	7,968,737	9,281,048	\$9,809,610 82	\$3,363,368 28	\$1,145,217 02	\$14,318,196 12

RECAPITULATION.

Showing Total Production and Wages of Indiana Mines for 1910.

TOTAL PRODUCTION OF BLOCK COAL.

	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Total mach. mined block coal.....	148,039	36,665	.....	184,704	38,924	10,885	.....	49,809	55,087	179,426	\$182,589 46	\$77,079 12	\$27,340 21	\$287,008 79
Total pick mined block coal.....	.....	.....	.....	.....	502,641	115,737	22,568	640,946	211,831	429,115	601,787 40	212,522 40	100,875 67	922,185 81
Total block coal.	689,604	163,287	22,568	875,459	.....	.....	.....	.....	266,918	608,541	\$784,377 20	\$296,601 52	\$128,215 88	\$1,209,194 60

TOTAL PRODUCTION OF BITUMINOUS COAL.

Total bitum. mach. mined coal.....	2,990,025	1,733,982	4,215,731	8,939,738	566,770	285,284	862,062	1,714,116	5,417,384	5,236,470	\$5,681,496 14	\$2,120,003 64	\$724,326 47	\$8,525,826 25
Total bitum. pick mined coal.....	.....	.....	.....	.....	1,909,796	1,508,921	3,177,214	6,595,931	2,551,353	4,044,578	4,128,114 68	1,243,364 64	420,890 55	5,792,369 87
Total bituminous coal.....	5,466,501	3,528,187	8,255,007	17,249,785	.....	.....	.....	.....	7,968,737	9,281,048	\$9,809,610 82	\$3,363,368 28	\$1,145,217 02	\$14,318,196 12
Total mach. mined coal.....	3,138,064	1,770,647	4,215,731	9,124,442	605,604	296,169	862,062	1,763,925	5,472,471	5,415,896	\$5,864,085 60	\$2,197,082 76	\$751,666 68	\$8,812,835 04
Total pick mined coal.....	.....	.....	.....	.....	2,412,437	1,624,658	3,199,782	7,236,877	2,763,184	4,473,693	4,729,902 42	1,462,887 04	521,766 22	6,714,555 68
Grand total.....	6,156,195	3,691,474	8,277,575	18,125,244	.....	.....	.....	.....	8,235,655	9,889,589	\$10,593,988 02	\$3,659,969 80	\$1,273,432 90	\$15,527,390 72

TABLE

Exhibiting the Names of Coal Companies, Names of the Mines Operated by Them, the Railroad on Which Each Mine is Located, the Geological Number of the Different Coal Seams Mined, Character of Coal, Thickness of Seam in Feet and Inches and Depth of Overlying Strata.

CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological Number of Seam.	Thickness of Seam in Feet and Inches.	Depth of Overlying Strata.	Character of Coal.
McClelland Coal Co.	Brazil Block No. 4.	C. & E. I.	III.	3' 4"	146	Block
Zellar-McClellan Co.	Superior No. 4.	E. & I. (Centerpoint Branch)	IV.	4' 2"	85	Block
Crawford Coal Co.	Crawford No. 6.	Vandalia.	III.	3' 4"	106	Block
Crawford Coal Co.	Crawford No. 10.	C. & E. I.	IV.	3' 10"	120	Block
Crawford Coal Co.	Crawford No. 11.	Main line Vandalia.	IV.	3' 4"	42	Block
Indiana Block Coal Co.	Indiana Block No. 1.	E. & I.	IV.	2' 10"	56	Block
Coal Bluff Mining Co.	Plymouth No. 3.	C. & E. I.	III.	3' 7"	115	Block
C. Ehrlich Coal Co.	Klondyke No. 3.	Vandalia.	III.	7' 6"	100	Bitu.
American Clay Mfg. Co.	Monarch.	Product consumed at factory.	IV.	2' 6"	75	Bitu.
Eureka Block Coal Co.	Eureka No. 5.	Big Four.	III.	3' 3"	115	Bitu.
Treager Bros.	Treager No. 2.	Wagon mine.	IV.	3' 8"	57	Bitu.
Harrison C. & Min. Co.	Harrison No. 5.	E. & I.	IV.	4' 6"	70	Block
Hall & Zimmerman.	Wizard.	Central Indiana.	III.	3' 4"	45	Block
Progressive C. & M. Co.	Progressive.	Main line Vandalia.	IV.	3' 10"	101	Block
Big Vein Mining Co.	Lewis.	S. I.	V.	8'	80	Bitu.
Vivian Colliers Co.	Vivian No. 1.	S. I.	III.	5' 10"	160	Bitu.
Vivian Colliers Co.	Vivian No. 2.	S. I.	IV.	4' 2"	34	Bitu.
United Fourth Vein C. Co.	Island Valley No. 4.	S. I.	IV.	4' 10"	104	Bitu.
German Coal Co.	German.	Wagon.	IV.	4'	61	Block
Sam Pyrah.	Pyrah.	Wagon.	IV.	3' 6"	35	Block
Nick Schrepferman.	Schrepferman.	Main line Vandalia.	IV.	3' 9"	63	Block
Nick Schrepferman.	Schrepferman.	Wagon.	III.	4' 2"	67	Block
Bee Ridge Coal Co.	Bee Ridge.	Wagon.	IV.	4'	30	Block

DAVIESS COUNTY.

Mutual Mining Co.	Mutual.	B. & O. S. W.	Min.	3' 9"	100	Bitu.
Daviess County C. Co.	Montgomery No. 4.	B. & O. S. W.	V.	5' 6"	238	Bitu.
W. J. Winterbottom.	Horney No. 3.	Wagon.	Min.	3' 9"	40	Bitu.
Mandabach.	Mandabach.	Wagon.	V.	5' 6"	97	Bitu.
River Island Coal Co.	River Island.	Wagon.	Min.	3' 6"	113	Bitu.
Winklepeck & Overton.	Winklepeck.	Wagon.	Min.	3'	Drift	Bitu.

FOUNTAIN COUNTY.

Rush Coal Co.	Indio.	Clover Leaf.	III.	4' 6"	50	Bitu.
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GIBSON COUNTY.

Princeton C. & Min. Co.	Oswald.	Southern.	V?	6' 10"	440	Bitu.
Fort Branch Coal Co.	Fort Branch.	E. & F. H.	VI.	4' 6"	265	Bitu.
Wyoming Coal Co.	Francisco.	Southern.	VI.	4'	132	Bitu.

GREENE COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological Number of Seam.	Thickness of Seam in Feet and Inches.	Depth of Overlying Strata.	Character of Coal.
United Fourth Vein C. Co.	Black Creek.....	S. I.....	IV.	4' 6"	83	Bitu.
United Fourth Vein C. Co.	Michason.....	S. I.....	IV.	4' 6"	81	Bitu.
United Fourth Vein C. Co.	Sponsler.....	S. I.....	IV.	5' 3"	50	Bitu.
United Fourth Vein C. Co.	Antioch.....	S. I. Br.....	IV.	4' 4"	168	Bitu.
United Fourth Vein C. Co.	North Linton.....	S. I.....	IV.	4'	64	Bitu.
Vandalia Coal Co.....	Vandalia No. 2.....	I. & V. Br.....	IV.	5'	66' 6"	Bitu.
Vandalia Coal Co.....	Vandalia No. 4.....	I. & V. Br.....	IV.	5'	55	Bitu.
Vandalia Coal Co.....	Vandalia No. 5.....	I. & V. Br.....	IV.	5'	91	Bitu.
Vandalia Coal Co.....	Vandalia No. 8.....	I. & V. Br.....	IV.	5' 6"	130	Bitu.
Vandalia Coal Co.....	Vandalia No. 9.....	I. & V. Br.....	IV.	5'	129	Bitu.
Vandalia Coal Co.....	Vandalia No. 20.....	I. & V. Br.....	V.	6' 6"	100	Bitu.
Vandalia Coal Co.....	Vandalia No. 21.....	I. & V. Br.....	V.	7'	112	Bitu.
Alliance Coal Co.....	Gilmour.....	S. & I.....	IV.	5' 2"	155	Bitu.
Summit C. & Min. Co.....	Summit No. 2.....	I. & V. Br.....	IV.	5' 6"	150	Bitu.
Green Valley Coal Co.....	Green Valley.....	S. I.....	IV.	5'	160	Bitu.
Alliance Coal Co.....	Lattas Creek.....	S. I.....	IV.	5' 4"	153	Bitu.
Queen Coal Co.....	Queen.....	S. I.....	IV.	3' 9"	90	Bitu.
Calora Coal Co.....	North West.....	S. I.....	IV.	4' 4"	84	Bitu.
Coal Bluff Min. Co.....	Twin No. 4.....	S. I.....	V.	4' 4"	60	Bitu.
Coal Bluff Min. Co.....	Twin No. 5.....	S. I.....	IV.	6' 4"	160	Bitu.
Cherry Hill Coal Co.....	Cherry Hill.....	S. I.....	IV.	5'	45	Bitu.
Letsinger Coal Co.....	Letsinger.....	S. I.....	III.	7'	200	Bitu.
McKireher Bros. C. Co.....	P. & I.....	S. I.....	III.	6' 6"	216	Bitu.
United Fourth Vein C. Co.	Black Creek No. 2.....	S. I.....	IV.	4' 6"		
United Fourth Vein C. Co.	Sponsler No. 2.....	S. I.....	IV.			

KNOX COUNTY.

Knox Coal Co.....	Knox.....	I. & V.....	V.	7'	207	Bitu.
Lynn Coal Co.....	Lynn.....	I. & V.....	V.	5'	185	Bitu.
Freeman Coal Co.....	Freeman.....	I. & V.....	V.	7' 6"	240	Bitu.
Bicknell Coal Co.....	Bicknell.....	I. & V.....	V.	7'	200	Bitu.
Washington-Wheatland Coal Co.....	Wheatland.....	B. & O. S. W.....	V.	5' 6"	238	Bitu.
Tecumseh C. & Min. Co.....	Tecumseh.....	I. & V.....	V.	5' 6"	154	Bitu.

PARKE COUNTY.

McClelland Block C. Co.....	Brazil No. 9.....	C. & E. I.....	IV.	4' 3"	121	Block
			IV.	4' 4"	90	
Zellar-McClellan Co.....	Superior No. 2.....	C. & E. I.....	III.	3' 4"	123	Block
			IV.	4' 4"	55	
Zellar-McClellan Co.....	Superior No. 3.....	C. & E. I.....	III.	3' 3"	85	Block
Zellar-McClellan Co.....	Superior No. 5.....	C. & E. I.....	III.	3' 4"	150	Block
Fairview Coal Co.....	Fairview.....	C. & E. I.....	M.	5'	240	Bitu.
Parke County C. Co.....	Parke No. 11.....	Vandalia.....	III.	6' 6"	125	Bitu.
Parke County C. Co.....	Parke No. 12.....	Vandalia.....	III.	6' 7"	176	Bitu.
Vivian Colliers.....	Lyford No. 1.....	C. & E. I.....	III.	6'	160	Bitu.
James Moore.....	Moore.....	Wagon.....	IV.	4'	24	Block
W. P. Harrison.....	Harrison.....	Wagon.....	M.	3' 5"		Bitu.
S. B. Coal Co.....	No. 1.....	Wagon.....	IV.	4' 2"	27	Block

PERRY COUNTY.

Lincoln Coal & Min. Co.....	Lincoln.....	Southern.....	M.	4'	Slope	Bitu.
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PIKE COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological Number of Seam.	Thickness of Seam in Feet and Inches.	Depth of Overlying Strata.	Character of Coal.
Ayrshire Coal Co.	Ayrshire No. 4.	M. L. South.	V.	5'	Drift	Bitu.
Ayrshire Coal Co.	Ayrshire No. 5.	M. L. South.	V.	5'	Slope	Bitu.
Cent. Ind. Coal & Min. Co.	Muren.	M. L. South.	V.	4'	Slope	Bitu.
S. W. Little Coal Co.	Blackburn No. 1.	E. & I.	V.	7' 6"	Slope	Bitu.
S. W. Little Coal Co.	Blackburn No. 2.	E. & I.	V.	6'	70	Bitu.
S. W. Little Coal Co.	Littles.	E. & I.	V.	6'	80	Bitu.
Peacock C. & Min. Co.	Peacock No. 2.	E. & I.	VI.	7' 6"	Slope	Bitu.
Winslow Gas & C. Co.	Winslow No. 4.	M. L. S.	V.	5'	Drift	Bitu.
Winslow Gas & C. Co.	Winslow No. 5.	M. L. S.	V.	5'	Drift	Bitu.
J. W. Welsh.	Hartwell No. 1.	M. L. S.	V.	4' 8"	Drift	Bitu.
J. W. Welsh.	Hartwell No. 2.	M. L. S.	V.	4' 8"	Drift	Bitu.
J. W. Welsh.	Hartwell No. 3.	M. L. S.	V.	4' 8"	Drift	Bitu.

SULLIVAN COUNTY.

Alliance Coal Co.	Rainbow.	I. S.	VI.	5'	92	Bitu.
Alliance Coal Co.	Phoenix No. 4.	E. & T. H.	VI.	5' 6"	202	Bitu.
Alliance Coal Co.	Hocking.	E. & T. H.	VI.	5' 2"	219	Bitu.
Alliance Coal Co.	Mammoth.	S. I.	VI.	5' 2"	177	Bitu.
Sunflower Coal Co.	Sunflower.	I. C.	VI.	5' 9"	104	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 25.	E. & T. H.	VI.	5'	221	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 26.	E. & T. H.	VI.	5' 5"	197	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 28.	S. I.	VI.	5' 6"	197	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 30.	S. I.	VI.	5' 6"	187	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 32.	S. I.	V.	7'	108	Bitu.
Consolidated Ind. C. Co.	Consolidated No. 33.	E. & T. H.	V.	6'	103	Bitu.
Vandalia Coal Co.	Vandalia No. 10.	I. & V. Br.	IV.	5' 6"	144	Bitu.
Jackson Hill C. & Coke Co.	Jackson Hill No. 2.	E. & T. H. Br.	VI.	5' 6"	105	Bitu.
Jackson Hill C. & Coke Co.	Jackson Hill No. 4.	E. & T. H. Br.	VI.	5' 8"	165	Bitu.
Gregory Coal & Min. Co.	Keystone.	E. & T. H.	V.	5'	305	Bitu.
Brazil Block Coal Co.	Dering No. 13.	E. & T. H.	VI.	5' 8"	144	Bitu.
Brazil Block Coal Co.	Dering No. 14.	E. & T. H.	VI.	6'	1'3	Bitu.
Chicago-Ind'pls Coal Co.	C. & I. No. 1.	C. I. & L.	VI.	5' 6"	111	Bitu.
Shirley Hill Coal Co.	Shirley Hill No. 3.	I. & V. Vandalia.	VI.	5' 6"	104	Bitu.
Shirley Hill Coal Co.	Little Giant.	C. I. & L.	VI.	5' 9"	109	Bitu.
Shirley Hill Coal Co.	Clover Leaf.	I. S.	IV.	5'	313	Bitu.
Kettle Creek Coal Co.	Pearl.	S. I.	VI.	5' 10"	170	Bitu.
Peabody-Alwart Coal & Mining Co.	Reliance.	E. & T. H.	VI.	5' 6"	228	Bitu.
United Fourth Vein C. Co.	Black Hawk.	S. I. R. R.	III.	6'	229	Bitu.
Carlisle Coal & Clay Co.	Viola.	E. & T. H.	V.	4' 8"	3'5	Bitu.
W. C. Hall Mining Co.	Freeman.	I. C.	VI.	5' 6"	110	Bitu.
Hudson Coal & Mining Co.	Hudson.	S. I.	VII.	5'	112	Bitu.
Bellevue Coal Co.	Bellevue.	E. & T. H. M. L.	V.	5'	335	Bitu.
Larsh Coal Co.	Larsh.	Wagon.	VI.	5' 3"	104	Bitu.
Averill Coal & Mining Co.	Hamilton.	E. & T. H.	III.	6'	254	Bitu.

VANDERBURGH COUNTY.

Diamond Coal Co.	Diamond.	Wagon.	V.	4'	244	Bitu.
Gileson Moore C. Co.	Ingleside.	L. & N.	V.	4'	265	Bitu.
Sunnyside Coal Co.	Sunnyside.	L. & N.	V.	4'	268	Bitu.
Crescent Coal Co.	Unity.	L. & N.	V.	4'	265	Bitu.
Banner Coal Co.	First Avenue.	Wagon.	V.	4'	261	Bitu.

VERMILLION COUNTY.

Brazil Block Coal Co.	Dering No. 8.	C. & E. I.	IV.	5' 3"	200	Bitu.
Silverwood Coal Co.	Eureka.	Con. Coal.	M.	4' 6"	110	Bitu.
Clinton Coal Co.	Crown Hill No. 1.	C. & E. I.	V.	4' 10"	165	Bitu.
Clinton Coal Co.	Crown Hill No. 2.	C. & E. I.	V.	4' 10"	155	Bitu.
Clinton Coal Co.	Crown Hill No. 3.	C. & E. I.	III.	6' 1"	345	Bitu.
Clinton Coal Co.	Crown Hill No. 4.	C. & E. I.	IV.	4' 6"	249	
Clinton Coal Co.	Crown Hill No. 5.	T. H. & Southern.	V.	5' 1"	182	Bitu.
Oak Hill Coal Co.	Oak Hill No. 50.	C. & E. I.	V.	4' 10"	57	Bitu.
Oak Hill Coal Co.	Maple Valley.	C. & E. I.	V.	5' 6"	225	Bitu.
Oak Hill Coal Co.	Buckeye No. 2.	C. & E. I.	V.	4' 8"	149	Bitu.
Oak Hill Coal Co.	Klondyke.	C. & E. I.	III.	7'	300	Bitu.

VIGO COUNTY.

Vandalia Coal Co.	Vandalia No. 66.	Main line Vandalia.	III.	5' 3"	102	Bitu.
Vandalia Coal Co.	Vandalia No. 67.	Main line Vandalia.	III.	7' 6"	100	Bitu.
Vandalia Coal Co.	Vandalia No. 69.	Main line Vandalia.	III.	5' 6"	120	Bitu.
Vandalia Coal Co.	Vandalia No. 81.	Main line Vandalia.	III.	4' 6"	64	Bitu.
Alliance Coal Co.	Forrest.	Big Four.	III.	6' 6"	159	Bitu.
Otter Creek Coal Co.	Mary No. 2.	C. & E. I.	IV.	3' 9"	257	Block
Retlaw Mining Co.	Atherton.	C. & E. I.	III.	6' 5"	158	Bitu.
Coal Bluff Mining Co.	Riverside.	Big Four.	V.	4' 5"	165	Bitu.
Coal Bluff Mining Co.	Wabash.	Big Four.	IV.	5' 4"	300	Bitu.
Coal Bluff Mining Co.	Plymouth No. 1.	Big Four.	III.	3' 11"	224	Block
Coal Bluff Mining Co.	Minshall.	Big Four.	Min.	5'	175	Bitu.
Lower Vein Coal Co.	Lower Vein No. 1.	Big Four.	V.	4' 8"	192	Bitu.
Miami Coal Co.	Miami No. 2.	C. & E. I.	III.	6' 5"	55	Bitu.
Miami Coal Co.	Miami No. 4.	C. & E. I.	III.	6' 6"	55	Bitu.
Miami Coal Co.	Miami No. 5.	C. & E. I.	III.	5' 6"	40	Bitu.
Miami Coal Co.	Miami No. 6.	C. & E. I.	IV.	5' 8"	160	Bitu.
Fauvre Coal Co.	Fauvre No. 2.	Main line Vandalia.	V.	4' 6"	219	Bitu.
Deep Vein Coal Co.	Deep Vein No. 5.	Main line Vandalia.	V.	4' 6"	170	Bitu.
Deep Vein Coal Co.	Deep Vein No. 4.	Main line Vandalia.	IV.	4' 3"	280	Bitu.
Grant Coal & Mining Co.	Grant No. 3.	C. & E. I.	III.	6' 6"	35	Bitu.
Sugar Valley Coal Co.	Sugar Valley.	Wagon mine.	V.	4' 4"	140	Bitu.
Brazil Block Coal Co.	Dering No. 6.	C. & E. I.	V.	4' 8"	111	Bitu.
National Coal & Fuel Co.	National.	Main line Vandalia.	VII.	4' 8"	42	Bitu.
Domestic Block C. Co.	Domestic Block No. 1.	C. & E. I.	IV.	3' 8"	110	Block
Glen Ayre Coal Co.	Glen Ayre No. 1.	Main line Vandalia.	IV.	5' 1"	90	Bitu.
Glen Ayre Coal Co.	Glen Ayre No. 2.	Main line Vandalia.	IV.	5' 1"	74	Bitu.
Pittsburg Mining Co.	Pittsburg No. 1.	Big Four.	VII.	5' 8"	260	Bitu.
C. A. Nash Coal Co.	Nash.	C. & E. I.	IV.	4' 8"	Slope	Bitu.
Vigo County C. Co.	Ray No. 2.	Main line Vandalia.	III.	7'	97	Bitu.

WARRICK COUNTY.

Big Four Coal Co.	Big Four No. 2.	Evansville Div. So.	V.	6'	Slope	Bitu.
Big Four Coal Co.	Big Four No. 3.	Evansville Div. So.	V.	5' 5"	Slope	Bitu.
Chandler Coal Co.	Chandler.	Evansville Div. So.	V.	4' 5"	120	Bitu.
Chas. Menden C. Co.	De Forrest.	Evansville Div. So.	V.	6'	65	Bitu.
T. D. Seales Coal Co.	Electric.	Evansville Div. So.	V.	6' 5"	45	Bitu.
Caledonia Mining Co.	Dawson.	Evansville Div. So.	V.	5'	86	Bitu.
Erie Canal Coal Co.	Erie Canal.	Evansville Div. So.	V.	4' 5"	130	Bitu.
Red Shaft Coal Co.	Red Shaft (Old Star No. 1).	Newburg & Evansv.	V.	4' 5"		
J. Wooley Coal Co.	Polk No. 4 and 5.	E. E. Electric.	V.	4'	180	Bitu.
J. Wooley Coal Co.	Castle Garden.	Evansville Div. So.	V.	6' 6"	Slope	Bitu.
Worsham-Newburg C. Co.	Brizius.	Evansville Div. So.	V.	4' 2"	80	Bitu.
Epworth Coal Co.	Epworth.	E. E. Electric.	V.	4'	128	Bitu.
Sargent Coal Co.	Sargent.	E. E. Electric.	V.	4'	114	Bitu.
Elberfeld Coal Co.	Elberfeld.	E. E. Electric.	V.	4'	96	Bitu.
Henry Korff Coal Co.	Korff.	E. & I.	V.	5'	196	Bitu.
White & Wilson.	John Bull.	Evansville Div. So.	V.	6'	50	Bitu.
		Southern.	V.	5' 6"	60	Bitu.

NEW MINES.

Thirteen new mines were opened during the year 1910, located in six different counties, as follows:

- Clay County, five block coal mines.
- Knox County, one bituminous.
- Parke County, one bituminous and one block.
- Vermillion County, two bituminous.
- Vigo County, three bituminous.
- Warriek County, one bituminous mine.

The annexed table shows the names by which each new mine is known, the names of the different Coal companies operating them, the location of each mine, i. e., County, Section, Town, Range and T. P. and Railroad on which each mine is located, whether machine or hand mine, geological number and thickness of coal seam in feet and inches, whether block or bituminous coal, depth of overlying strata, size of shaft and the date of the first shipment of coal:

TABLE OF NEW MINES.

CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Location of Mine.	Railroad.	Hand or Machine.	Geological Number of Coal Seam	Block or Bituminous.	Thickness of Seam in Feet and Inches.	Depth of Overlying Strata in Feet.	Size of Shaft.	Date of First Shipment of Coal.
Treager Bros.	Treager	N. E. $\frac{1}{4}$ Sec. 7, T. 12 N., R. 7 W., Posey Tp.	Wagon or local mine..	Hand....	IV.	Block..	3' 8"	56	7x14	May, 1910
Crawford Coal Co..	Crawford No. 11...	S. E. $\frac{1}{4}$ Sec. 33, T. 12 N., R. 6 W., Jackson Tp.	Center Point Br. Van.	Hand....	IV.	Block..	3' 4"	42	8x20	Aug. 12, 1910
Schrepferman	Schrepferman No. 2	S. E. $\frac{1}{4}$ Sec. 6, T. 12 N., R. 6 W., Jackson Tp.	Vandalia Br.	Hand....	IV.	Block..	3' 9"	63	8x18	July 8, 1910
Bee Ridge	Bee Ridge .....	.....	Wagon	Hand....	Ryder	Block..	4'	30		

KNOX COUNTY.

Bicknell Coal Co..	Bicknell	Sec. 21, T. 4 N., R. 8 W., Vigo Tp.	I. & V., Vandalia....	Machine.	V.	Bitum.	7'	200	7x13	August.
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PARKE COUNTY.

Parke Co. Coal Co.	Parke No. 12	S. W. $\frac{1}{4}$ Sec. 28, T. 14 N., R. 8 W., Floyd Tp.	Logansport Div. Van.	Machine.	III.	Bitum.	7'	176	8x18	
S. B. Coal Co.	S. B. Mine	N. W. $\frac{1}{4}$ S. E. $\frac{1}{4}$ Sec. 8, T. 17 N., R. 7 W.	Wagon mine	Hand....	IV.	Block..	4' 2"	27	7x8	Sept. 5.

VERMILLION COUNTY.

Clinton Coal Co....	Crown Hill No. 4..	S. W. $\frac{1}{4}$ N. E. $\frac{1}{4}$ Sec. 29, T. 14 N., R. 9 W., Clinton Tp.	C. & E. I.	Machine.	IV.	Bitum.	4' 6"	249	17' 10"x9' 10"	Dec. 7, 1910
Clinton Coal Co....	Crown Hill No. 5..	S. W. $\frac{1}{4}$ N. W. $\frac{1}{4}$ Sec. 24, T. 14 N., R. 10 W., Clinton Tp.	C. T. H. & S. E.	Hand....	V.	Bitum.	5'	182	17' 4"x9' 9"	Dec. 5, 1910

VIGO COUNTY.

NAME OF COMPANY.	Name of Mine.	Location of Mine.	Railroad.	Hand or Machine.	Geological No. of Coal Seam.	Block or Bituminous.	Thickness of Seam in Feet and Inches.	Depth of Overlying Strata in Feet.	Size of Shaft.	Date of First Shipment of Coal.
C. A. Nash.....	Nash.....	N. W. $\frac{1}{4}$ Sec. 17, T. 13 N., R. 7 W., Navins Tp.	C. & E. I.....	Hand....	IV.	Bitum.	4'	Slope	.....	Dec. 8, 1910
Miami Coal Co.....	Miami No. 6.....	S. W. $\frac{1}{4}$ Sec. 4, T. 13 N., R. 9 W., Fayette Tp.	C. & E. I.....	Hand....	V.	Bitum.	5'	156	8x16	May 1, 1910
Jackson Hill C. Co.	Jackson Hill No. 5.	N. E. $\frac{1}{4}$ Sec. 16, T. 13 N., R. 9 W., Fayette Tp.	C. & E. I.....	Machine.	IV.	Bitum.	5'	180	8' 10"x18'	Oct., 1910

WARRICK COUNTY.

Wilson & White.....	John Bull.....	Sec. 29, T. 5 N., R. 8 W., Boon Tp.	Southern.....	Machine.	V.	Bitum.	5' 6"	60	9x18	Mar. 1, 1910
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CHANGES IN OWNERSHIP AND MANAGEMENT OF
MINING PROPERTIES.

Transfers in the ownership and the management of mining properties were made during the year as follows:

The Atherton Mine, located in Vigo County, owned by the Atherton Splint Coal Company, changed hands in January. It was purchased by W. S. Bogle and others, who organized the Retlaw Coal Company. This company sunk a second escape shaft during the year and made other extensive improvements, placing the mine among the foremost producers in the county.

The Winslow Gas & Coal properties, located in Pike County, owned by the Cedar Creek Coal Company, were leased in January by H. A. Lobey and were later re-leased to the John Jennings Coal Company.

The Letsinger Coal Company was reorganized in January under the name of the Florence Coal Company, which now operates the Letsinger mine.

The control and management of the National Coal and Fuel Company's mine, located at West Terre Haute, was assumed in January by the Richards & Sons Coal Company.

Changes in the management of the Alliance Coal Company mining properties were made in February. Mr. John E. Windsor succeeded Mr. J. K. Seifert and was appointed vice-president of the company, with offices in the Old Colony Building, Chicago. Mr. Frank Fisher succeeded John Gilmour as general superintendent, and he is now general manager, with office in Terre Haute.

The Hudson Mine, Sullivan County, changed hands during the fall and is now operated by the Sullivan Coal Product and Mining Company.

The Chandler Mine, Warrick County, went into the hands of a receiver during the fall, Mr. W. H. Ferguson, of Evansville, being appointed receiver.

The Hamilton Mine, Sullivan County, was purchased during the summer by the Averill Coal Mining Company, and the work of cleaning up the mine, which had been idle for over a year, was commenced in September.

The Brazil Block Coal Company's Mines Nos. 4 and 9 were purchased in December by the McClelland Block Coal Company.

IMPROVEMENTS.

Expenditures reported to this office by the different coal companies as having been made for improvements of different kinds in or about the mines of Indiana during the year 1910 represent an aggregate of \$24,868.37. The sums expended on mines in the different counties are as follows: Clay County, \$7,838.50; Fountain County, \$170.70; Knox County, \$600.00; Parke County, \$215.16; Sullivan County, \$508.37; Vermillion County, \$9,605.00; Vigo County, \$499.30; Warrick County, \$5,431.34.

These figures, however, do not represent the total expenditures for improvements. In a number of mines high-speed fans, motor haulage, etc., were installed and the labor and cost of installation was charged to operating expense.

TABLE.

Showing Number of Miners, Machine Runners and Helpers, Loaders, Inside Day and Monthly Men, Persons Employed Outside; Total Number of Employees at Each Mine, Number of Days Worked and Number of Mules Used; Totals by Counties, the Block and Bituminous Mines Shown Separately.

BLOCK HAND MINES.

CLAY COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Brazil Block No. 1.....	20	10	4	34	26	6	81
Brazil Block No. 4.....	93	33	11	137	269	14	4,103
Superior No. 4.....	41	15	5	61	267	6	2,079
Crawford No. 2.....	24	14	5	43	187	3	687
Crawford No. 6.....	55	16	6	77	267	5	2,776
Crawford No. 9.....	11	3	4	18	34	1	124
Crawford No. 10.....	100	30	9	139	254	8	6,496
Indiana Block No. 1.....	38	8	5	51	219	4	1,477
Plymouth No. 2.....	54	16	6	76	269	6	4,045
Monarch.....	25	7	2	34	248	4	697
Eureka No. 5.....	75	22	8	105	258	9	4,410
Treager.....	11	2	2	15	90	1	162
Pyrar.....	7	3	2	12	25	1	.....
Harrison No. 5*.....	.....	.....	.....	.....	.....	.....	.....
Wizard.....	63	16	6	85	196	6	1,176
Progressive.....	30	4	3	37	100	2	313
Schefferman*.....	.....	.....	.....	.....	.....	.....	.....
Crawford No. 11.....	26	14	5	45	67	2	373
Bee Ridge.....	8	9	2	19	98	1	.....
German*.....	.....	.....	.....	.....	.....	.....	.....
Total.....	681	222	85	988	2,874	79	28,999

*Not reported.

PARKE COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Brazil Block No. 9.....	53	22	6	81	196	13	2,548
Brazil Block No. 12.....	14	4	4	22	70	1	227
Superior No. 2.....	48	20	7	75	235	10	2,665
Superior No. 3.....	78	22	7	107	244	9	3,608
Superior No. 5.....	118	22	7	147	224	10	5,749
Moore†.....							
S. B.....							
Total.....	311	90	31	432	969	43	14,797
Total for block hand mines.	992	312	116	1,420	3,843	122	43,796

†Less than ten men.

BLOCK COAL MACHINE MINES.

PARKE COUNTY.

NAME OF MINE.	Miners.	Ma- chine Runners and Helpers.	Load- ers.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Pow- der.
Mary No. 1.....	10	8	21	16	10	65	93	5	317
Total.....	10	8	21	16	10	65	93	5	317

VIGO COUNTY.

Plymouth No. 1.....	51	12	51	27	12	153	264	9	3,582
Domestic Block No. 1	11	12	50	35	14	122	227	12	981
Mary No. 2.....	20	12	46	22	11	111	245	6	1,949
Total.....	82	36	147	84	37	386	736	27	6,512
Totals for mach. block.....	92	44	168	100	47	451	829	32	6,829
Totals for hand block.....	992			312	116	1,420	3,843	122	43,796
Totals for all block mines....	1,084	44	168	412	163	1,871	4,672	152	50,625

BITUMINOUS HAND MINES.

CLAY COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Klondyke No. 3.....	112	21	8	141	253	6	4,141
Vivian No. 1.....	Idle.						
Gifford No. 2.....	43	9	7	59	152	4	1,416
Total.....	155	30	15	200	405	10	5,557

DAVIESS COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Winklepeck*							
Montgomery No. 4.....	36	6	5	47	217	3	2,267
Winterbottom No. 3.....	12	1	2	15	188	2	300
Mutual.....	65	20	8	93	179	6	883
Mandabach†.....							
Pine Island No. 1*.....							
Total.....	113	27	15	155	584	11	3,450

*Less than ten men.

†Not reported.

FOUNTAIN COUNTY.

Indio.....	Idle.						
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GREENE COUNTY.

Dickason.....	47	10	6	63	212	6	2,854
Sponsler.....	70	16	7	93	174	10	3,251
Antioch.....	Idle.						
North Linton.....	Idle.						
Vandalia No. 3.....	Idle.						
Vandalia No. 4.....	126	39	11	176	253	12	7,147
Queen.....	108	33	12	153	234	11	7,384
Cherry Hill.....	23	4	6	33	225	2	1,408
Letsinger.....	65	22	11	98	225	6	4,174
Monarch*.....							
Enterprise.....	19	4	3	26	40	3	253
Total.....	458	128	56	642	1,363	50	26,471

*Not reported.

GIBSON COUNTY.

Oswald.....	141	62	13	216	275	26	9,116
Fort Branch.....	29	12	6	47	251	4	2,011
Francisco.....	18	4	3	25	242	2	1,228
Total.....	188	78	22	288	768	28	12,355

KNOX COUNTY.

Wheatland.....	47	9	6	62	217	5	2,527
Total.....	47	9	6	62	217	5	2,527

PARKE COUNTY.

Vandalia No. 316.....	126	51	13	190	66	24	1,121
Fairview.....	104	25	9	138	251	14	4,664
Total.....	230	76	22	328	317	38	5,785

PERRY COUNTY.

Lincoln.....	Idle.						
Total.....							

REPORT OF STATE INSPECTOR OF MINES FOR YEAR 1910. 207

PIKE COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Ayrshire No. 4.....	161	31	16	208	234	11½	9,904
Muren.....	Idle.						
Blackburn No. 1.....	28	9	7*	144	257	7	2,318
Blackburn No. 2.....	53	16	8	77	216	5	3,314
Littles.....	150	40	10	200½	213	16	5,611
Winslow No. 4 and 5.....	Idle.						
Hartwell No. 1, 2 and 3.....	Idle.						
Total.....	492	96	41	629	920	39	21,147

SULLIVAN COUNTY.

Hamilton.....	41	18	13	72	47	4	415
Superior (Hudson).....	36	14	7	57	116	7	959
Consolidated Ind. No. 32.....	138	54	20	212	201	22	7,195
Citizens.....	23	9	8	40	67	6	560
Keystone.....	59	24	11	94	243	7	3,325
Viola.....	58	18	11	87	246	7	3,996
Larsh*.....							
Freeman.....	57	21	10	88	241	9	3,321
Bellevue.....	48	14	10	72	249	3	2,258
Total.....	460	172	90	722	1,410	65	22,029

*Less than ten men.

VANDERBURGH COUNTY.

First Avenue.....	44	9	10	63	249	7	2,156
Diamond.....	40	9	9	58	176	6	1,615
Ingleside.....	49	21	9	79	255	11	1,608
Sunnyside.....	47	9	5	61	239	6	2,157
Unity.....	124	42	19	185	231	12	7,336
Total.....	304	90	52	446	1,180	42	14,872

VERMILLION COUNTY.

Dering No. 8.....	220	68	10	298	252	23	11,460
Eureka.....	11	4	3	18		3	87
Crown Hill No. 1.....	234	44	12	290	271	16	18,238
Crown Hill No. 2.....	178	47	19	244	253	17	17,529
Maple Valley.....	69	15	11	95	100	4	2,448
Buckeye No. 2.....	161	53	11	225	146	28	14,952
Klondyke.....	169	34	14	217	264	15	13,291
Total.....	1,042	265	80	1,387	1,286	106	84,010

VIGO COUNTY.

Vandalia No. 66.....	110	49	12	171	244	19	5,621
Vandalia No. 67.....	200	57	18	275	248	26	8,764
Vandalia No. 81.....	55	27	10	92	256	13	3,319
Forrest.....	201	63	21	285	254	23	11,499
Atherton.....	105	47	8	160	267	14	7,732
Riverside.....	83	18	6	107	269	6	6,340
Lower Vein No. 1.....	190	50	14	254	275	20	12,285
Miami No. 2.....	66	19	7	92	74	10	910
Miami No. 4.....	222	41	11	274	274	25	12,585
Miami No. 5.....	62	16	9	87	263	5	4,317
Miami No. 6.....	67	17	8	92	250	6	4,997
Fauvre No. 2.....	73	14	7	94	255	6	4,510
Deep Vein No. 5*.....							
Ray No. 2.....	233	26	11	270	256	23	9,739
Sugar Valley.....	63	8	5	76	273	7	3,466
Dering No. 6.....	240	60	8	308	262	21	14,966
National.....	43	9	5	57	229	7	2,340
Pittsburg No. 1.....	180	48	12	240	257	17	10,116
Total.....	2,193	569	172	2,934	4,206	248	12,350

*Not working.

WARRICK COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Chandler.....	41	8	5	54	216	4	2,220
De Forrest.....	23	7	3	33	202	4	1,058
Brizius.....	26	3	4	33	165	4	722
Elberfield.....	40	10	6	56	230	7	2,147
Epworth*.....							
Korff.....	30	5	5	40	186	3	1,968
Sargent.....	30	4	5	39	241	4	1,561
Red Shaft*.....							
Castle Garden.....	51	16	6	73	230	8	3,021
Total.....	241	53	34	328	1,470	34	12,697
Total hand mine employes..	5,923	1,593	605	8,121	14,126	676	334,406

*Less than ten men.

BITUMINOUS MACHINE MINES.

CLAY COUNTY.

NAME OF MINE.	Miners.	Ma- chine Runners and Helpers.	Load- ers.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Pow- der.
Lewis.....	32	14	40	10	8	104	209	8	2,285
Vivian No. 2.....	22	10	46	22	12	112	192	12	1,963
Island Valley No. 4...	31	16	105	54	15	221	269	14	4,181
Total.....	85	40	191	86	35	437	670	34	8,429

GREENE COUNTY.

Black Creek.....	19	10	45	29	10	113	156	9	1,919
Vandalia No. 2.....	66	20	51	41	13	191	243	12	3,578
Vandalia No. 5.....	55	8	52	52	21	188	259	16	3,095
Vandalia No. 8.....	5	18	133	79	20	255	245	13	2,134
Vandalia No. 9.....	12	24	190	90	23	339	257	15	3,602
Vandalia No. 20.....	102	20	43	26	11	202	257	8	3,854
Vandalia No. 21.....	10	28	82	35	17	172	240	12	1,961
Gilmour.....	31	18	120	63	19	251	235	17	1,857
Lattas Creek.....	19	30	162	80	24	315	249	20	4,289
Summitt No. 2.....	3	18	115	53	10	199	198	29	2,159
Green Valley.....		24	147	42	13	226	221	15	3,235
North West.....	34	14	63	44	11	166	235	12	2,079
Twin No. 4.....	17	6	38	21	4	86	212	7	1,118
Twin No. 5.....	27	12	88	33	8	168	241	13	2,859
Total.....	400	250	1,329	688	204	2,871	3,248	198	37,739

KNOX COUNTY.

Tecumseh.....		52	162	44	13	271	237	13	3,975
Knox.....	7	16	108	40	13	184	243	14	2,278
Lynn.....	30	8	23	28	7	96	263	11	3,100
Freeman.....	25	18	135	48	23	249	209	17	4,609
Bicknell.....		6	18	5	7	36	82	3	204
Total.....	62	100	446	165	63	836	1,034	58	14,166

PARKE COUNTY.

NAME OF MINE.	Miners.	Ma- chine Runners and Helpers.	Load- ers.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Pow- der.
Lyford No. 1.....		30	54	42	17	143	247	16	1,477
Parke No. 12.....		16	26	10	10	62	87	2	556
Parke No. 11.....	35	26	55	47	12	175	270	14	3,735
Total.....	35	72	135	99	39	380	604	32	5,768

PIKE COUNTY.

Ayrshire No. 5.....	9	10	52	15	9	95	206	7	1,924
Peacock No. 2.....	4	10	38	10	8	70	238	4	1,040
Total.....	13	20	90	25	17	165	444	11	2,964

SULLIVAN COUNTY.

Rainbow.....		16	109	50	19	194	231	19	3,139
Phoenix No. 4.....		22	120	56	20	218	239	14	2,472
Hocking.....		16	81	56	19	172	165	14	1,677
Sunflower.....		20	123	44	17	204	269	18	2,615
Consolidated No. 25.....		22	77	58	20	177	251	19	1,992
Consolidated No. 26.....		18	36	39	25	119	57	7	181
Consolidated No. 28.....	Idle.	1							
Consolidated No. 30.....		20	83	52	25	180	226	19	1,874
Consolidated No. 33.....	29	32	192	129	27	409	264	33	4,590
Vandalia No. 10.....		24	151	83	25	283	264	19	3,478
Jackson Hill No. 2.....		18	90	34	18	170	249	17	1,543
Jackson Hill No. 4.....	10	20	105	47	13	185	258	26	1,620
Dering No. 13.....		14	66	40	12	132	221	16	1,315
Dering No. 14.....		16	75	45	14	150	243	17	1,712
Mammoth.....		20	112	62	24	218	224	16	2,994
C. & I.....	100	6	30	45	20	201	264	13	6,298
Shirley Hill No. 3.....	55	12	63	31	16	177	251	9	5,403
Little Giant.....	136	14	78	71	23	322	268	16	11,009
Clover Leaf.....	71	6	20	54	17	168	273	15	5,927
Pearl.....		8	41	18	10	77	218	8	616
Reliance.....		12	59	36	12	119	220	14	1,305
Black Hawk.....	90	6	25	23	12	156	227	9	6,151
Total.....	492	342	1,736	1,073	388	4,031	4,882	338	67,911

VERMILLION COUNTY.

Crown Hill No. 4.....	22	6		16	12	56	101	3	1,279
Crown Hill No. 3.....	88	46	63	48	15	260	268	17	10,462
Oak Hill.....	41	4	16	19	6	86	260	7	6,005
Total.....	151	56	79	83	33	402	629	27	17,746

VIGO COUNTY.

Vandalia No. 69.....	113	8	61	66	17	265	254	22	5,888
Wabash.....	20	18	149	43	13	243	264	16	3,640
Minshall.....	102	16	55	50	10	233	274	25	7,891
Deep Vein No. 4.....	27	10	100	56	14	207	251	21	3,397
Grant No. 3.....	148	26	60	72	18	224	270	22	7,004
Glen Ayre No. 1.....	1	20	133	56	16	226	239	18	3,136
Glen Ayre No. 2.....	23	8	45	13	7	96	251	9	2,879
Total.....	434	106	603	356	95	1,594	1,803	133	33,835

WARRICK COUNTY.

NAME OF MINE.	Miners.	Ma- chine Runners and Helpers.	Load- ers.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Pow- der.
Big Four.....		18	54	12	16	100	205	8	1,506
Electric.....	27	6	23	18	10	84	176	10	1,831
Dawson.....		14	30	11	7	62	255	8	780
Erie Canal.....		8	40	16	7	71	215	10	990
Plok No. 5.....		20	65	16	17	118	228	13	2,375
John Bull.....		6	13	4	5	28	53	2	102
Total.....	27	72	225	77	62	463	1,132	51	7,584
Totals for bitum. machine mines..	1,699	1,058	4,834	2,652	936	11,179	14,446	882	196,142
Totals for hand bitum. mines...	5,923			1,593	605	8,121	14,126	676	334,406
Grand total for all mines in State..	7,622	1,058	4,834	4,245	1,541	19,300	28,572	1,558	530,548

TABLE

Showing by Counties the Total Number of Kegs of Powder Used in 1910, the Number of Kegs per Miner, the Total Tons of Coal Produced and the Number of Tons Produced per Keg of Powder—the Block and Bituminous Mines Each Shown Separately, as are the Machine and Hand Mines—Also a General Average of Tons Produced per Keg in all the Mines in the State Combined.

BLOCK COAL HAND MINES.

COUNTY.	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Tons per Keg.
Clay.....	405,629	28,999	681	42.6—	14
Parke.....	235,317	14,797	311	47.6—	15.90—
General average.....	640,946	43,795	992	44.1—	14.63—

BLOCK COAL MACHINE MINES.

COUNTY.	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Tons per Keg.
Parke.....	12,521	317	39	8.0—	39.5—
Vigo.....	221,992	6,512	265	24.6—	34.08—
General average block machine mines...	234,513	6,829	304	22.4—	35.133
General average block hand mines.....	640,946	43,795	992	44.1—	14.63
Total general average for all block mines.	875,459	50,624	1,296	39—	17.2—

BITUMINOUS HAND MINES.

COUNTY.	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Tons per Keg.
Clay.....	150,602	5,557	155	35.8	27.1—
Davies.....	72,692	3,450	113	30.5—	21—
Fountain.....	Idle				
Gibson.....	285,101	12,355	188	65.7—	23—
Greene.....	535,759	26,471	458	57.8—	20.2—
Knox.....	62,421	2,527	47	53.7—	24.7—
Parke.....	148,565	5,785	230	25.1—	25.6—
Perry.....	Idle				
Pike.....	429,910	21,147	492	43	20.3—
Sullivan.....	500,827	22,029	460	47.8—	22.7—
Vanderburgh.....	369,987	14,872	340	43.7—	24.8—
Vermillion.....	1,413,271	84,010	1,042	80.6—	16.8—
Vigo.....	2,476,954	123,506	2,193	56.3	20
Warrick.....	229,147	12,697	241	52.6—	18
General average bituminous hand mines.	6,675,236	344,406	5,923	58.1—	19.4—

BITUMINOUS MACHINE MINES.

COUNTY.	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Tons per Keg.
Clay.....	392,171	8,429	316	26.6	46.5
Greene.....	2,705,931	37,739	1,979	19—	71.7
Knox.....	983,447	14,166	608	16.9—	69.4
Parke.....	331,324	5,768	242	23	57.4
Pike.....	170,042	2,964	123	24	57.3
Sullivan.....	3,838,346	67,911	2,570	26	56.5
Vermillion.....	263,010	11,741	286	41	22.4
Vigo.....	1,418,035	37,301	1,143	33	38
Warrick.....	472,245	7,584	324	23	62.2
General average bituminous mach. mines.	10,574,549	193,600	7,591	25.5	54.6
General average bituminous hand mines..	6,675,236	344,406	5,923	58.1	19.1
General average all bituminous mines....	17,249,785	538,006	13,514	39.8	32

RECAPITULATION.

	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Kegs per Ton.
General average for block hand mines.....	640,946	43,795	992	44.1—	14.63—
General average for block machine mines....	234,513	6,829	304	22.4—	35.1—
General average for bituminous hand mines....	6,675,236	344,406	5,923	58.1—	19.4—
General average for bituminous machine mines	10,574,549	193,600	7,591	25.5	54.6
Total general average for all mines in the State.....	18,125,244	588,626	14,810	39.7	32—

ABANDONED MINES.

Sixteen mines were abandoned during the year 1910, located in eight different counties, as follows:

In Clay there were four block and one bituminous, all hand mines. Greene, two bituminous, hand. Knox, one bituminous, hand. Parke, one block, machine; one block, hand; and one bituminous, hand. Pike, one bituminous, hand. Sullivan, one bituminous, machine. Vermillion, one bituminous, hand. Vigo, two bituminous, hand mines.

We give herewith a table exhibiting by counties the names of the mines abandoned, the names of the companies owning them, date of abandonment, and the railroad on which each mine was located:

TABLE.

CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Date of Abandonment.	Railroad.
Brazil Block Coal Co.....	Brazil Block No. 1...	February 3.....	C. & E. I.
Crawford Coal Co.....	Crawford No. 2.....	September 30.....	Center Point Br., Vandalia.
Crawford Coal Co.....	Crawford No. 9.....	February 23.....	C. & E. I.
O. S. Richardson Coal Co.....	Gifford No. 2.....	August 15.....	C. & E. I.
Treager Bros.....	Treager No. 1.....	Date not given...	Wagon mine.

GREENE COUNTY.

Vandalia Coal Co.....	Vandalia No. 6.....	January.....	I. & V. Coal Br.
Enterprise Coal Co.....	Enterprise.....	Date not given...	I. & V. Coal Br.
United Fourth Vein Coal Co..	Sponsler.....	September.....	S. I.

KNOX COUNTY.

Home Coal Co.....	Bicknell.....	Date not given...	I. & V. Vandalia.
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PARKE COUNTY.

Brazil Block Coal Co.....	Brazil Block No. 12..	March 28.....	C. & E. I.
Otter Creek Coal Co.....	Mary No. 1.....	May.....	C. & E. I.
Vandalia Coal Co.....	Vandalia No. 316...	March.....	Logansport, Vandalia.

PIKE COUNTY.

Petersburg.....	Dismantled in the spring.....	E. & I.
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SULLIVAN COUNTY.

NAME OF COMPANY.	Name of Mine.	Date of Abandonment.	Railroad.
Alliance Coal Co.....	Citizens.*.....	March 23.....	S. I.

VERMILLION COUNTY.

Brazil Block Coal Co.....	Dering No. 5.....	January.....	C. & E. I.
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VIGO COUNTY.

Miami Coal Co.....	Miami No. 2.....	March 31.....	C. & E. I.
Vandalia Coal Co.....	Vandalia No. 81.....	December 31.....	Vandalia M. L.

EXAMINATIONS.

Examinations of applicants for certificates of competency to serve as mine bosses, fire bosses and hoisting engineers were held on three different dates in the city of Terre Haute. We give here-with the date of each examination, the total number of candidates examined, the total number passing a successful examination, the name and address of each person receiving a certificate, and the per cent. grade made by the holder thereof:

MINE BOSS.

*Examination held May 10 and 11, 1910. Total number of Candidates, 24.
Total number passed, 17.*

Certificate

No.	Name and Address.	Per Cent.
1.	Wm. Henry Luxton, Linton.....	77
2.	Robert Weston, Clinton.....	82
3.	Ive Coopridier, Clinton.....	88
4.	Thos. T. Jones, Carbon.....	81
5.	George Tucker, Linton.....	82
6.	Monroe Osborne, Shelburn.....	80
7.	Clifford Botts, Sullivan.....	76
8.	Marion Compton, Terre Haute.....	75
9.	Thomas Shull, Terre Haute	80
10.	Joe Weatherly, Princeton.....	79
11.	Wm. Jardine, Clinton.....	83
12.	M. C. Mitchell, Terre Haute.....	87
13.	Herschel Hawkins, Sullivan.....	82
14.	George Givens, Brazil.....	80
15.	C. E. Brooking, Jasonville.....	85
16.	Pete Butterman, Brazil.....	78
17.	Wm. Brewer, Jr., Dugger.....	85

FIRE BOSS.

Total number of Candidates 11. Total number passed, 9.

Certificate

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	Chas. H. Coleman, Oakland City.....	75
2.	Jas. Brooks, Shelburn.....	76
3.	Jas. S. Townsley, Clinton.....	80
4.	Homer Cargal, Bicknell.....	79
5.	Thomas Campbell, Oakland City.....	75
6.	Henry White, Shelburn.....	80
7.	James A. Gowans, Shelburn.....	81
8.	B. F. Whittington, Sullivan.....	76
9.	Numa Chambornson, Linton.....	87

HOISTING ENGINEERS.

Total number of Candidates, 10. Total number passed, 3.

1.	E. G. Sargent, Newburg.....	83
2.	Oliver Snider, Chandler.....	82
3.	George O. Storer, Terre Haute.....	79

MINE BOSS.

Examination held August 17 and 18, 1910. Total number of Candidates, 30. Total number passed, 17.

18.	A. F. Odell, Evansville.....	84
19.	Timothy C. O'Connor, Staunton.....	87
20.	Charles Buckely, Sullivan.....	82
21.	Theo. Mason, Chandler.....	77
22.	James Sams, Chandler.....	83
23.	Clarence Filbert, Linton.....	80
24.	Henry M. Siepman, Brazil.....	77
25.	Dud King, Linton.....	80
26.	Edger Wallace, Shelburn.....	77
27.	James C. Gowans, Shelburn.....	80
28.	Joe Smith, West Terre Haute.....	79
29.	Robert A. Pettigren, Jasonville.....	77
30.	Edgar Crain, Linton.....	80
31.	John Dunlop, Peoria, Ill.....	91
32.	Tom Moses, Westville, Ill.....	91
34.	John Hewitt, Terre Haute.....	90
35.	Mack Nitterhouse, Terre Haute.....	90
10.	Reece H. Davies, Dugger.....	78
11.	Louis R. Thomas, Carlisle.....	79
12.	David Kendrick, Sullivan.....	78
14.	William Strachan, West Terre Haute.....	85
15.	Will Moody, Evansville.....	91
16.	Mathew Leckie, Sullivan.....	80
17.	Augustian Hie, Linton.....	82
18.	Arthur Hennette, Dugger.....	80

HOISTING ENGINEERS.

*Total number of Candidates, 27. Total number passed, 11.**Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
4.	A. J. Marshall, Sullivan.....	82
5.	W. O. Cummins, Clinton.....	76
6.	James Burroughs, Center Point.....	79
7.	Samuel R. Freager, Brazil.....	83
8.	Carl Spangler, Cass.....	82
9.	Martin Oberholtzer, Linton.....	82
10.	George Annakin, West Terre Haute.....	79
11.	Otto Walker, Bicknell.....	80
12.	Henry V. Knapp, Coal Bluff.....	79
13.	John L. Sharps, Carbon	77
14.	Albert P. Davis, Sullivan.....	81
15.	Nute Hadley, Brazil.....	79

MINE BOSS.

*Examination held December 20-21, 1910. Total number of Candidates, 78.**Total number passed, 65.*

33.	Ora Blackburn, West Terre Haute.....	77
34.	E. C. Goddard, Farmersburg.....	89
35.	Willie Johnston, Jr., Mecca.....	78
36.	Joseph Robinson, Shelburn.....	78
37.	Ivan R. Marshall, Lewis.....	78
38.	John Wittmer, Newburg.....	80
39.	R. E. Moore, Rockville.....	79
40.	William Moore, Knightsville.....	77
41.	William R. Davies, Sullivan.....	77
42.	Robert Pickett, Hymera.....	85
43.	R. Y. Williams, Evansville.....	95
44.	James Valley, Sullivan.....	79
45.	Tom Thomas, Shelburn.....	78
46.	Jesse Fain, Hymera.....	77
47.	Oscar Cochran, Shelburn.....	78
48.	Geo. Badder, Vicksburg.....	76
49.	Ed. Stuck, Linton.....	77
50.	Albert A. Sams, Evansville.....	95
51.	Joseph Mitchell, Terre Haute.....	80
52.	John Mills, Shelburn.....	89
53.	Henry Ingle Stacer, Newburg.....	83
54.	Dave Kandrich, Sullivan.....	82
55.	Charles Lay, Chandler.....	80
56.	James Brooks, Shelburn.....	78
57.	Andrew Henderson, Bicknell.....	81
58.	Daniel Phillips, Hymera.....	78
59.	Jacob Riley, Shelburn.....	88
60.	Alonza J. Garwood, Terre Haute.....	88
61.	Thos. M. Gregory, Terre Haute.....	88

Certificate

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
62.	Isaiah Taylor, Cass.....	81
63.	Henry White, Shelburn.....	90
64.	Sidney C. Owens, Carbon.....	79
65.	James W. Edwards, Terre Haute.....	80
66.	Enoch Evans, Terre Haute.....	78
67.	Thomas James, West Terre Haute.....	80
68.	R. H. Thomas, Clinton.....	78
69.	David L. Jones, West Terre Haute.....	80
70.	Robert Bryce, Coalmont.....	80
71.	Numa Chamboudon, West Terre Haute.....	87
72.	Daniel Cummings, Linton.....	81
73.	Elgart L. Cooper, Francisco.....	79
74.	Robert E. Millard, Linton.....	85
75.	Alexander Cunningham, Carlisle.....	81
76.	A. J. Marks, Bicknell.....	87
77.	John C. Dersch, Brazil.....	81
78.	William J. Owens, Carbon.....	83
79.	John Jennings, Jr., Winslow.....	82
80.	Thomas G. Houchin, Little.....	79
81.	J. W. Black, Kingman.....	81
82.	John H. Wilkinson, Terre Haute.....	80
83.	Will Strachan, Terre Haute.....	82
84.	Wm. Bosmell, Linton.....	83
85.	Frank Sams, Chandler.....	86
86.	Robert Leigh, Evansville.....	84
87.	John Murphy, Terre Haute.....	88
88.	Harry Ferguson, Clinton.....	82
89.	L. R. Bledsoe, Sullivan.....	82
90.	Ed. Jones, Clinton.....	84
91.	Fred H. Hilgedirk, Linton.....	86
92.	Robert M. Wilson, Shelburn.....	88
93.	Henry D. Bredemeg, Linton.....	83
94.	Wilford Raines, Cass.....	79
95.	W. P. Davis, Linton.....	82
96.	Jacob Partington, Shelburn.....	80
97.	Hugh Reid, Brazil.....	85
98.	William P. Rollins, Terre Haute.....	88

FIRE BOSS.

Total number of Candidates, 23. Total number passed, 16.

19.	Henry Surmont, Sullivan.....	80
20.	Edward Atkinson, West Terre Haute.....	77
21.	Hugh Devitt, Shelburn.....	77
22.	E. G. Sargeant, Newburg.....	85
23.	George Ogilvie, Bicknell.....	83
24.	John Ogilvie, Bicknell.....	77
25.	Joseph Belshaw, Clinton.....	77
26.	James Dooley, St. Mary's.....	81

Certificate

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
27.	Gus Dow, Clinton.....	77
28.	J. C. Heenan, Indianapolis.....	80
29.	Charlie Vowel, Shelburn.....	76
30.	Thomas Hugo, Princeton.....	77
31.	Wm. Lewis, Princeton.....	79
32.	George Nevis, West Terre Haute.....	79
33.	John W. Stiles, Coalmont.....	80
34.	S. V. Risher, Shelburn.....	89

HOISTING ENGINEERS.

Total number of Candidates, 30. Total number passed, 23.

16.	Omar F. Walter, Clinton.....	78
17.	J. Bush Tribble, Linton.....	79
18.	Fred H. Knight, Sanford.....	76
19.	John O. Walter, Clinton.....	80
20.	Ed. Wright, Clinton.....	82
21.	Fred G. Walter, Clinton.....	77
22.	G. A. Brackney, Mecca.....	76
23.	J. W. Milbourn, Seelyville.....	84
24.	H. J. Peauler, Francisco.....	80
25.	Arthur Long, Center Point.....	85
26.	Ollie Pirkle, Winslow.....	77
27.	J. S. Johnson, Bicknell.....	80
28.	William Cox, Brazil.....	76
29.	Onis Rudolph, Boonville.....	81
30.	Ira S. Klinger, Sullivan.....	80
31.	James C. Anderson, Princeton.....	83
32.	Lee Courtney, Jasonville.....	82
33.	Robert McCollier, Sullivan.....	87
34.	Earl F. Smith, Linton.....	80
35.	Orce Wolford, Linton.....	78
36.	Walter C. Adams, Linton.....	77
37.	Denis M. O'Donnell, Terre Haute.....	78
38.	Jules J. Sarmont, Sullivan.....	95

OPINION OF ATTORNEY-GENERAL RELATING TO
DUTIES OF MINE BOSS AND FIRE BOSS.

During my tenure of office I have had frequent inquiries as to whether persons who had qualified as both mine boss and fire boss would be permitted to perform the duties pertaining to both positions at the same time. These inquiries had become so numerous that I finally decided to submit the matter to the attorney-general for an opinion. I give herewith the Opinion rendered June 14th by Attorney-General James Bingham:

OPINION.

INDIANAPOLIS, June 14, 1910.

Hon. James Epperson, Inspector of Mines, State House, Indianapolis, Indiana.

Dear Sir—I am in receipt of your letter of June 7th, directing my attention to the provisions of sections eleven and twenty-one of the Act of February 28, 1905 (Acts 1905, p. 65), relating to coal mines, and requesting my opinion as to whether one person may be permitted to perform the duties of mine boss and fire boss at the same time.

Section 11 of said Act, among other things, provides that,

“Every place where fire damp is known or supposed to exist, shall be carefully examined with a safety lamp by a competent fire boss immediately before each shift.”

It is made unlawful for any person to enter any mine generating fire damp until it has been examined by the fire boss and reported by him to be safe, and it is further provided that

“The operator shall employ a competent mine boss, who shall be an experienced coal miner, and shall keep careful watch over the ventilating apparatus and the air-ways, and shall see that, as the miners advance their excavations, all loose coal, slate and rock overhead are taken down or carefully secured against falling therein on the traveling and airways.”

The mine boss by the provisions of section 12 of said Act is required to visit and examine every working place in the mine at least every alternate day while the mine is being worked and to see that each and every working place is properly secured by timbering and that the safety of the mine is assured.

Many other duties are required of the mine boss but all of them seek to render the operation of the mine safe to the workmen. The duties prescribed by the act to be performed by the fire boss have the same purpose in view, namely, to render such mines safe places in which the workmen may perform their labors and are not in conflict with those to be performed by the mine boss.

Section 22 of said act provides that certificates of competency are to be issued by the inspector of mines to persons, upon examinations of qualifications, by experience and technical knowledge, to perform the duties of either mine boss, fire boss or hoisting engineer, and it is made unlawful for any person to serve as a mine boss, fire boss or hoisting engineer until he has received from the inspector the required certificate, and it is unlawful for an operator to employ any persons as mine boss or fire boss who do not hold a proper certificate of competency.

Section 21 of said Act provides that the inspector shall conduct examinations in certain places by which applicants may be examined showing their qualifications entitling them to certificates as prescribed in said Section 22, and it is provided that,

“No certificate shall be issued to any person entitling him to serve in more than one of the capacities set out in this section, but two or more certificates may be issued to the same person on proper examination.”

It is also provided that each applicant for such certificate shall pay to the inspector one dollar for the purpose of paying the expense of holding the examinations.

The language of these sections seems to contemplate that while the inspector of mines may not issue a certificate entitling the holder to serve in more than one of the capacities set out in the section, he may issue to one applicant on a proper examination, two or more certificates. In other words, you may issue to one person a certificate of competency as a mine boss and another one to such person of competency as a fire boss.

In my opinion, upon proper examination you may issue to one person two certificates, one entitling him to serve as mine boss and another entitling him to serve as fire boss, and that there is nothing in the law to prevent the person holding both of the certificates from performing the duties relating to the two positions.

I have the honor to be,

Very truly yours,

JAMES BINGHAM,
Attorney-General.

FATALITIES AND INJURIES TO MINE EMPLOYEES.

Under this caption, accidents to mine employes are classed under four separate heads, viz: fatal, permanent, serious and minor; each class being treated separately.

Under the head of fatal accidents we include those where persons were killed outright and those whose injuries proved fatal, death frequently resulting in a few days, weeks or months after the accident occurred.

Under the head of permanent injuries we include those where persons suffered the amputation of a limb, a broken spine or other injury unfitting them to follow their usual occupation.

Under the head of serious accidents we class those resulting in broken or dislocated limbs, internal injuries, cuts, bruises or other injuries causing the person injured any considerable loss of time and of a nature serious enough to call for special mention.

Under the head of minor injuries we include accidents where persons have suffered only slight cuts, bruises or injuries entailing but little loss of time.

In probably three-fourths of the minor accidents no loss of time whatsoever was entailed; the injuries representing a mashed finger, bruised foot or a slight cut. It is necessary, however, that we secure a report of all accidents in and around mines, by reason of the fact that the statute requires this department to investigate all accidents where a physician's attendance is required; also, that frequently what a mine boss on first examination would consider

a seemingly trivial accident, terminates most seriously. In Illinois and other States, only accidents that entail a loss of thirty days' time are reported, and as a result many accidents entailing from three to twelve months, loss are not reported.

The monthly reports of mine bosses, coal companies and reports of inspectors made to this office during the year 1910 show an aggregate of 1,571 accidents to mine employes, classed as follows: Fatal, 51; permanent, 6; serious, 505, and minor, 1,009.

The different causes of each class of these accidents are exhibited in the annexed table:

TABLE

Showing the Number of Fatal, Permanent, Serious and Minor Accidents Occurring in and Around the Coal Mines of Indiana During the Year 1910 and the Different Causes of Such Accidents.

CAUSE OF ACCIDENT.	Fatal.	Permanent.	Serious.	Minor.	Total.
Falling coal.....			62	101	163
Falling slate.....	25	2	154	190	371
Mine cars.....	6	1	140	366	513
Mining machines.....		1	16	21	38
Mine motors.....			7	14	21
Smoke explosions.....	2				2
Explosions of powder.....	3		5	3	11
Explosions of firedamp.....	4		21	11	36
Premature blasts.....	5	1	10	1	17
Delayed blasts.....			5	1	6
Windy shots blowing.....				1	1
Shots through pillar.....	1				1
Mine cages.....	1		4	17	22
Falling down shaft.....	3			3	6
Kicked by mules.....			33	92	125
Electric shock.....	1		1	6	8
Miscellaneous.....		1	45	171	217
Coal falling down shaft.....			1	7	8
Railroad cars.....			1	4	5
Total.....	51	6	505	1,009	1,571

FATAL ACCIDENTS.

The following summary table of fatal accidents exhibits the date on which each fatality or injury occurred; the name, age and occupation of each person killed or fatally injured; number of dependents left at each death, the cause of each accident; the name of the mine where each accident occurred, and the counties in which the different mines are located:

TABLE.

Summary of Fatal Accidents, 1910.

DATE.	Name.	County.	Age.	Cause of Accident.	Mine.	Occupation.	DEPENDENTS.		Nationality
							Wife.	Child- ren.	
Jan. 8	Henry Potts.....	Shot firer.....	34	Explosion of powder and gases.	Keystone.....	Sullivan.....	1	4	English.
Jan. 14	John Hartman.....	Miner.....	45	Explosion of powder.....	Dering No. 6.....	Vigo.....			German.
Jan. 17	John Smith.....	Loader.....	31	Falling slate.....	Wabash.....	Vigo.....	1		English.
Feb. 17	Chas. Mullinix.....	Miner.....	36	Falling slate.....	Klondyke No. 3.....	Clay.....	1	3	American.
Feb. 22	W. A. Pitman.....	Shot firer.....	36	Explosion of powder and gases.	Keystone.....	Sullivan.....	1	1	American.
Feb. 25	Alex. Rohland.....	Shot firer.....	35	Premature blast.....	Carlisle.....	Sullivan.....	1	4	English.
Feb. 28	Jenks Anderson.....	Miner.....	45	Explosion of powder.....	Princeton.....	Gibson.....			Negro.
Feb. 28	Frank Jones.....	Miner.....	24	Explosion of powder.....	Princeton.....	Gibson.....	1		Negro.
Mar. 7	Tomso Carlevatto.....	Miner.....	34	Falling boulder.....	Crown Hill No. 1.....	Vermillion.....	1	2	Italian.
Mar. 11	Sylvester Anderson.....	Miner.....	30	Shot through pillar.....	Union No. 25.....	Sullivan.....	1	1	American.
May 13	Sam Roll.....	Miner.....	72	Premature blast.....	Banner.....	Vanderburgh.....	1	2	American.
May 13	Robert Thompson.....	Miner.....	28	Falling slate.....	Phoenix.....	Sullivan.....			Scotch.
May 21	Pios Clemens.....	Miner.....	34	Falling slate.....	Mandabach.....	Daviess.....	1	2	American.
June 2	Geo. Koborn.....	Loader.....	24	Falling slate.....	Vandalia No. 9.....	Greene.....			Austrian.
June 7	Walter Watt.....	Loader.....	31	Falling slate.....	Vandalia No. 10.....	Sullivan.....			American.
June 12	Nathaniel Melton.....	Blacksmith.....	60	Falling down shaft.....	Parke No. 11.....	Parke.....	1	4	American.
June 28	John O'Neal.....	Miner.....	60	Falling slate.....	Princeton.....	Gibson.....			Irish.
July 7	James Cox.....	Loader.....	41	Falling slate.....	Peacock No. 2.....	Pike.....	1	1	American.
July 13	David Brown.....	Miner.....	65	Falling slate.....	Klondyke No. 3.....	Clay.....	1	2	Scotch.
July 13	Fred Delgeman.....	Timberman.....	37	Falling rock.....	Diamond.....	Vanderburgh.....	1	2	American.
July 14	D. R. Cowden.....	Miner.....	55	Falling slate.....	Clover Leaf.....	Sullivan.....	1		American.
July 15	Victor Johnson.....	Driver.....	19	Crushed by mine car.....	Reliance.....	Sullivan.....			American.
July 22	Pat Gallagher.....	Loader.....	45	Premature blast.....	Mammoth.....	Sullivan.....			American.
July 25	Carlo Ponti.....	Miner.....	45	Premature blast.....	Superior No. 3.....	Parke.....	1	4	Italian.
July 25	Wm. Brummetti.....	Machine runner.....	49	Falling slate.....	Union No. 25.....	Sullivan.....	1	6	American.
Aug. 1	Lewis Sanderson.....	Miner.....	35	Electrocuted.....	Glen Ayr No. 2.....	Vigo.....	1	4	American.
Aug. 2	David Price.....	Fire boss.....	35	Cage hoisted to dump and thrown into shaft.....	Forrest.....	Vigo.....	1	2	American.
Aug. 3	John Skorick.....	Miner.....	25	Ascending cage.....	Dering No. 6.....	Vigo.....			Austrian.
Aug. 4	Fred Schrader.....	Top hand.....	55	Falling down shaft.....	Oak Hill No. 1.....	Vigo.....	1	2	American.
Aug. 5	Daniel Douilley.....	Miner.....	16	Explosion of firedamp.....	Minshall.....	Vigo.....			American.

SUMMARY OF FATAL ACCIDENTS—Continued.

Date.	NAME.	Occupation.	Age.	Cause of Accident.	Mine.	County.	DEPENDENTS.		Nationality.
							Wife.	Children.	
Aug. 14	John Morten	Driver	24	Crushed by mine car	Vandalia No. 9	Greene		2	American.
Sept. 7	William McNeil	Loader and jerry	46	Falling slate	Knox	Knox	1	2	Scotch.
Sept. 7	Edward Scherer	Jerryman	24	Falling slate	Summitt	Greene	1		American.
Sept. 10	William Stevenson	Asst. gen. supt.	37	Falling slate	Shirley Hill No. 1	Sullivan	1	2	American.
Sept. 10	Ross Swinehart	Driver	25	Crushed by mine car	Sugar Valley	Vigo	1		American.
Sept. 10	Frank Miller	Electrician	36	Falling slate	Shirley Hill No. 1	Sullivan	1	5	American.
Sept. 14	Andrew Baxter	Miner	49	Explosion of firedamp	Vandalia No. 10	Sullivan	1	4	Scotch.
Sept. 16	Steve France	Miner	52	Falling slate	Brazil Block No. 9	Parke	1		Slav.
Sept. 20	J. S. Byers	Driver	34	Mine cars	Erie Canal	Warrick	1		American.
Sept. 18	Joseph Brasos	Driver	19	Falling slate	Shirley Hill No. 1	Sullivan			Hungarian.
Sept. 22	Michael Convey	Driver	40	Premature blast	Superior No. 3	Parke			Irish.
Oct. 13	Batiste Perona	Driver	29	Falling slate	Eureka No. 5	Clay	1	2	Italian.
Oct. 21	Ross Nixon	Loader	38	Falling slate	Mammoth	Sullivan	1	2	American.
Oct. 22	John Tobaes	Driver	21	Crushed by mine car	Twin No. 4	Greene	1		French.
Oct. 30	Robert McDaniels	Jerryman	52	Falling coal and slate	Hamilton No. 1	Sullivan	1	2	American.
Nov. 18	Herbert Clark	Loader	18	Falling slate	St. Clair	Sullivan			American.
Nov. 28	Wm. Waugh	Miner	26	Falling rock	Forrest	Vigo	1	3	Negro.
Dec. 1	James Farley	Jerryman	21	Explosion of firedamp	Reliance	Sullivan			American.
Dec. 1	George Ford	Jerryman	21	Explosion of firedamp	Reliance	Sullivan			American.
Dec. 8	Chas. Reed	Driver	22	Falling slate	Deep Ven	Vigo	1	1	American.
Dec. 22	Ross Spice	Car coupler	18	Mine cars and rib	Vandalia No. 8	Greene			American.

TABLE

Showing the Number of Tons of Coal Mined, the Number of Persons Employed, the Number of Fatalities and the Number of Tons of Coal Produced per Each Fatality Each Year from January 1, 1898, to January 1, 1910.

YEAR.	Tons Produced.	Employees.	Fatalities.	Tons per Fatality.
1898.....	5,146,920	No report.	22	233,950
1899.....	5,864,975	7,366	15	390,997
1900.....	6,283,063	8,858	18	349,059
1901.....	7,019,203	10,296	24	292,466
1902.....	8,763,197	13,139	24	365,133
1903.....	9,992,563	15,128	15	181,683
1904.....	9,872,404	17,838	34	290,304
1905.....	10,995,972	17,856	47	233,956
1906.....	11,422,027	19,562	31	368,450
1907.....	13,250,715	19,009	53	250,013
1908.....	11,997,304	19,092	45	266,606
1909.....	13,692,089	18,908	50	273,841
1910.....	18,125,244	21,171	51	355,397

TABLE OF OCCUPATIONS

Showing the Total Number of Fatal, Permanent and Serious Accidents Occurring in 1910, and the Different Occupations of Persons Fatally or Otherwise Injured.

OCCUPATION.	Fatal.	Permanent.	Serious.	Minor.	Total.
Miners.....	19	2	129	163	313
Machine runners.....	1	1	34	38	74
Machine helpers.....		1	7	20	28
Loaders.....	7		56	105	168
Motormen.....			8	11	19
Drivers.....	9		160	401	570
Roadmen.....			3	15	18
Jerries.....	5		46	82	133
Trappers.....			4	24	28
Cagers.....			9	51	60
Pumpers.....			1	1	2
Electricians.....	2		2	8	12
Trip riders.....			4	11	15
Car couplers.....	1		7	10	18
Boss drivers.....			4	6	10
Mine bosses.....			5	6	11
Superintendents.....	1				1
Fire bosses.....	1				1
Shot firers.....	3		10	1	14
Flagmen.....			1	3	4
Engineers.....		1		5	6
Non-employee.....		1			1
Shot runner.....				1	1
Total.....	51	6	505	1,009	1,571

SERIOUS AND PERMANENT ACCIDENTS.

We give herewith a summary table of the permanent and serious accidents:

TABLE OF PERMANENT ACCIDENTS.

DATE.	Name.	Occupation.	Age.	Injury.	Cause of Accident.	Mine.	County.	DEPENDENTS.		Nationality.
								Wife.	Children.	
Jan. 27	Edwin James.....	Machine helper...	37	Dislocated hip and bone broken..	Falling slate.....	Parke No. 11.....	Parke.....	1	2	American.
Mar. 1	Harry Reynor.....	Miner.....	40	Right hand amputated.....	Falling slate.....	Dering No. 14.....	Sullivan.....	.....	.....	American.
June 10	Guy Robertson.....	Machine runner..	22	Leg amputated.....	Mining machine...	Shirley Hill No. 1.	Sullivan.....	.....	.....	American.
Aug. 8	Clarence Harris...	Miner.....	20	Both legs broken.....	Exploding shot...	Ayrshire No. 4....	Pike.....	.....	.....	American.
Sept. 30	Noble Cozbell.....	Engineer.....	23	Left hand amputated.....	By ax.....	Sponsler.....	Greene.....	.....	.....	American.
Oct. 6	Milton House.....	Non-employee....	14	Right arm amputated.....	Mine car.....	Vandalia No. 10...	Sullivan.....	.....	.....	American.

TABLE

Exhibiting the Number of Serious Accidents Occurring in 1910, the Name, Age and Occupation of Persons Injured, the Number of Persons Dependent on them for Support, the Name of County and the Mine Wherein the Accident Occurred.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Jan. 1	W. A. McConroe	34	Timberman	1			Arm, side, hip, head cut	Falling slate	Reliance	Sullivan.
Jan. 3	Henry Fox	38	Miner	1	2		Bruised back, broken ribs	Falling coal	Riverside	Vigo.
Jan. 3	W. H. Lawson	24	Day man	1	2		Severed two fingers	Door of car	Ray No. 2	Vigo.
Jan. 5	Algie Church	45	Pumper	1			Hand, rib broke, hip bruised	Falling in sump	Glen Ayr No. 2	Vigo.
Jan. 7	W. J. White	32	Machine runner	1	2		Thumb severed	By machine	Green Valley	Greene.
Jan. 8	Harry Rodgers	35	Miner	1	3		Ankle sprained, cut head	Falling slate	North West	Greene.
Jan. 8	Frank Maford	30	Miner	1	2		Dislocated hip	Falling slate	Shirley Hill No. 1	Sullivan.
Jan. 8	Joe Greesick	46	Machine helper	1	3		Broken arm	By machine	Jackson Hill No. 2	Sullivan.
Jan. 11	Harry Shearn	23	Driver				Finger crushed	Mine cars	Little Giant	Sullivan.
Jan. 11	John Barley	31	Driver	1	1		Breast crushed	Car and mule	Atherton	Vigo.
Jan. 12	Isaac Jackson		Bottom cager	1	1		Broken ribs, bruised side		Superior No. 5	Parke.
Jan. 13	John Polonski	37	Car blocker	1	6		Bruised groin and arm	Mine cars	Crown Hill No. 3	Vermillion.
Jan. 14	Frank Bridder	23	Driver				Injured ankle	Coal and mine car	Vandalia No. 8	Greene.
Jan. 14	Irwin Young	44	Driver	1	4		Bruised back and hips	Mine car and prop	Fairview	Parke.
Jan. 15	W. R. Summers	60	Trapper	1			Bruised leg, neck and chin	Mine car	Cannelburg	Daviess.
Jan. 16	Clinton Fray	28	Timberman	1	4		Crushed feet	Falling shale	National Fuel	Vigo.
Jan. 17	John Sedlock	23	Machine runner				Finger severed	Machine	Vandalia No. 69	Vigo.
Jan. 20	O. Morrison	50	Trackman	1	2		Knee dislocated	Falling slate	Klondyke	Vermillion.
Jan. 24	Chas. Sheppard	36	Boss driver	1	2		Arm broken	Kick of mule	Vandalia No. 69	Vigo.
Jan. 24	John Lewis	24	Driver	1			Hip and face cut	Kick of mule	Brazil Block No. 6	Vigo.
Jan. 24	George Ouds	39	Miner	1	4		Bruised shoulder and legs	Falling slate	Forrest	Vigo.
Jan. 25	John Garrison	45	Shooter	1	3		Arms, face and back burned	Shot flame	Brazil Block No. 6	Vermillion.
Jan. 26	Harry Butler	18	Driver				Broken leg	Falling slate	Vandalia No. 9	Greene.
Jan. 27	James Cox	34	Driver	1			Sprained neck, bruised body	Mine cars	Peacock No. 2	Pike.
Jan. 27	Russel Ranis	20	Driver	1			Broken arm	Mine car	Clover Leaf	Sullivan.
Jan. 28	John Brannon	30	Trackman	1	1		Broken arm	Mine car	Greene Valley	Greene.
Jan. 31	John Kendall		Driver	1	1		Hip dislocated, leg bruised	Mine car	Twin No. 5	Greene.
Jan. 31	Andie Crawford	18	Switchman				Arms and finger broken	Mine car trap	Wilfred No. 14	Sullivan.
Feb. 1	Wm. Evans	44	Miner	1	1		Broken leg	Falling slate	Fort Branch	Gibson.
Feb. 2	Aaron Alsep	45	Jerryman	1	5		Face and hands burned	Igniting gas	Vandalia No. 9	Greene.

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Feb. 3	John Wilson	21	Miner				Nose cut	Falling slate		Greene.
Feb. 3	Bruce Burke	23	Machine helper	1	3		Leg broken	Falling coal	Tecumseh	Knox.
Feb. 4	Clarence Donaldson	30	Driver	1	4		Broken nose and jaw	Falling from car	Lynn	Knox.
Feb. 4	Winfield Mollotte	26	Jerryman	1			Broken arm	Mine car	Blackburn No. 3	Pike.
Feb. 5	William Garrigus	43	Miner	1	1		Crushed foot	Falling slate	Gifford No. 2	Clay.
Feb. 5	John Isaac	24	Driver				Crushed foot	Mine car	Miami No. 4	Vigo.
Feb. 8	Miles Mutchmore	51	Digger	1			Broken arms, bruised hips	Rope broke on incline	Blackburn No. 2	Pike.
Feb. 10	Claude Larse	30	Driver	1	2		Thumb severed	Mine cars	St. Clair	Sullivan.
Feb. 11	John Sultz	47	Machine man	1	2		Bruised hip and bowels	Falling rock	Rainbow	Sullivan.
Feb. 18	Ots Templeton	20	Driver				Broken arm	Mine car	Sponsler	Greene.
Feb. 21	Clarence Siner	25	Miner				Collar bone broken	Falling slate	Crawford No. 6	Clay.
Feb. 21	Fred King	21	Driver				Broken leg	Mine cars	Vandalia No. 69	Vigo.
Feb. 22	J. C. Rishner	66	Loader	1	3		Broken leg	Falling slate	Vandalia No. 5	Greene.
Feb. 22	A. Fauld	62	Bratticeman	1			Burned head	Burning gas	Reliance	Sullivan.
Feb. 22	Robert Duncan	35	Machine man	1	2		Broken hips, bruised side	Coal	Phoenix	Sullivan.
Feb. 23	David Beasley	35	Loader				Arm and 3 ribs broken	Fall'g ice from shaft tipple	Lewis	Clay.
Feb. 23	Dan Anman	21	Driver				Broken leg	Mine cars	Superior No. 4	Clay.
Feb. 24	John Jones	30	Driver	1			Broken ankle	Mine car	Vigo Co. Coal Co.	Vigo.
Feb. 25	Cass Jerrels	60	Loader	1	1		Chest bruised	Falling slate	Vandalia No. 4	Greene.
Feb. 25	Pat Deroyer	21	Driver				Collar bone broken	Blocking car	Vigo Co. Coal Co.	Vigo.
Feb. 25	Enoch O. Oski	45	Miner				Broken leg	Falling slate	Miami No. 2	Vigo.
Feb. 26	Oscar Autin	26	Tracklayer	1			Nail through foot	Stepped on nail in rail	Vandalia No. 2	Greene.
Feb. 26	Isaac Ryally	36	Tracklayer	1	5		Broken leg	Falling slate	Peacock No. 2	Pike.
Feb. 27	Evert Green	18	Closing trap door				Bruised fingers	Mine car door	Riverside	Vigo.
Feb. 28	Harry Cash	27	Driver	1	2		Two ribs broken, crushed chest	Car and roof	Wabash	Vigo.
Feb. 28	Oliver Tribble	34	Miner	1	7		Bruised back and hips	By cage	Miami No. 6	Clay.
Mar. 1	Lemuel Ball	56	Miner	1	6		Bruised back and breast	Falling slate	German	Gibson.
Mar. 1	Arch Roll	25	Driver	1			Dislocated hip	Mine car	Oswald	Clay.
Mar. 1	Jack Ball	24	Miner				Three vertebrae dislocated	Falling slate	German	Gibson.
Mar. 3	Thomas Solon	25	Driver				Bruised leg	Kicked by mule	Oswald	Gibson.
Mar. 4	Frank Hong	26	Machine runner	1			Head cut	Ratchet	Wabash	Vigo.
Mar. 4	James Suttts	21	Miner				Finger severed	Lump of coal	Wizard	Clay.
Mar. 7	Robert Blankinship	33	Miner	1	2		Bruised hips and back	Falling slate	Superior No. 5	Parke.
Mar. 8	Joe Seifert	27	Miner	1	1		Strained shoulder and back	Fall of draw slate	North West	Greene.
Mar. 8	J. M. Roberts	17	Miner				Arm broke, leg bruised	Falling slate	Fairview	Parke.
Mar. 8	James Harris	35	Jerryman				Eye hurt	Falling slate	Consol. Ind. No. 33	Sullivan.

Mar. 8	James Luttrull	45	Miner	1		Side, foot, ankle bruised	Falling slate	Winslow	Pike
Mar. 8	Phillip Hayworth	22	Car dropper			Crushed hand	Car	Hocking	Sullivan
Mar. 8	Homer Wilks	36	Machine helper	1	1	Bruised hips	Mine car	Vandalia No. 10	Sullivan
Mar. 10	John Robinson	36	Loader			Two ribs broken	Falling coal	Vandalia No. 10	Sullivan
Mar. 11	Wm. Sehlatter	28	Miner	1		Face, arms, body burned	Explosion of powder	Miami No. 2	Vigo
Mar. 12	James Patrick	33	Motorman	1	1	Right leg cut	Mine car and motor	Glen Ayr No. 1	Vigo
Mar. 12	Thos. Hoffman	19	Driver			Thumb severed	Sprag and wheel	Vandalia No. 10	Greene
Mar. 16	Neut Synader	24	Miner		1	Right leg broken	Falling slate	North West	Greene
Mar. 16	Frank Gibner	34	Driver			Broken arm	Mine car	Oswald	Gibson
Mar. 18	Thomas Sgle	33	Tracklayer		2	Bruised back	Falling coal	Crown Hill No. 1	Vermillion
Mar. 18	Vergil Moore	24	Miner	1	1	Bruised chest and back	Falling coal	Miami No. 4	Vigo
Mar. 19	Selby Potter	23	Driver			Mashed hand	Car and roof	Green Valley	Greene
Mar. 19	Arthur Wright	27	Miner			Bruised foot and ankle	Falling slate	St. Clair No. 30	Sullivan
Mar. 19	Silas Wagner	26	Driver	1		Bruised head, hip and leg	Striking head on rock	Lower Vein	Vigo
Mar. 21	John Lawson	20	Miner			Bruised chin and back	Falling slate	Miami No. 4	Vigo
Mar. 23	Howden Riggs	17	Trip rider			Squeezed in abdomen	Mine car	Vandalia No. 9	Greene
Mar. 24	Ed. Cunningham	25	Driver			Broken arm	Mine car	Vandalia No. 2	Greene
Mar. 25	Perry Altman	65	Miner	1		Cut over eye	Piece of slate	Crawford No. 6	Clay
Mar. 25	Merrit Holson	20	Driver			Bruised arm	Mule kick	Vandalia No. 4	Greene
Mar. 26	Dan Smith	35	Miner	1	3	Broken foot	Falling coal	Caledonia	Warrick
Mar. 28	Leonard Rankin	46	Water hauler	1		Bruised ankle	Water box and switch	Brazil Block No. 14	Sullivan
Mar. 29	William Russel	30	Loader	1		Crushed foot	Falling coal	Consol. Ind. No. 14	Sullivan
Mar. 31	Sears Hulen	34	Miner	1		Arms, neck and shoulder burned	Igniting some gas	Oswald	Greene
Mar. 31	John Witmarsh	24	Driver			Bruised side and back	Mine car and mule	Miami No. 5	Vigo
April 28	Harvey Gibson	36	Machine helper	1	4	Shoulder and foot dislocated	Falling slate	Domestic Block No. 1	Vigo
April 30	E. E. Norton	50	top hand	1	4	Finger severed	Lump of coal	Clover Leaf	Sullivan
May 5	Wm. Vaughn	26	Driver			Bruised hips and abdomen	Mine cars	Vandalia No. 5	Greene
May 5	Osa Burrell	18	Top man			Finger severed	Mine car	Shirley Hill No. 1	Sullivan
May 6	Lee Kote	53	Slate man	1		Head and leg cut	Falling slate	North West	Greene
May 6	Andy Vindiski	26	Loader			Crushed back and side	Falling coal	Tecumseh	Knox
May 7	Wm. Maxwell		Machine runner			Squeezed hips and legs	Falling coal	Vandalia No. 9	Greene
May 7	Alvie Leonard	34	Boss driver		3	Crushed in abdomen and leg	Kicked by mule	Freeman	Knox
May 7	Geo. Swift	30	Machine helper	1	3	Crushed foot	Falling coal	St. Clair	Sullivan
May 7	Chas. Owens	22	Driver	1	1	Bruised leg and ankle	Mine car	Lower Vein	Vigo
May 9	Fred Osborne	22	Asst. motorman			Hand crushed	Motors	Vandalia No. 10	Sullivan
May 10	James Scott	19	Driver	1		Bruised and cut leg	Mine car	Knox	Knox
May 10	Van Lambert	30	Miner	1	3	Two ribs broken	Falling slate	Miami No. 4	Vigo
May 10	Archie McDonald	24	Driver			Fractured shoulder	Mine car	Wabash	Vigo
May 12	Albert Short	25	Loader	1	4	Broken leg	Going back on shot	Tecumseh	Knox
May 12	James Killiman	26	Driver	1	2	Broken arm	Mine cars	Vandalia No. 67	Vigo
May 12	James Gallion	21	Day man	1	1	Crushed in abdomen	Kick of mule	Vandalia No. 69	Vigo
May 13	Robert Tompson	27	Timberman			Bruised body	Falling slate	Phoenix	Sullivan
May 14	Mart. McLaney	26	Driver			Jaw bone broke	By mule	St. Clair	Sullivan
May 14	William Smiley	19	Driver			Collar bone broken	Mule kick	Hocking	Sullivan
May 14	Lee Richardson	30	Room boss	1		Collar bone, 2 ribs broke	Falling slate	Brazil Block No. 8	Vermillion
May 14	Samuel Howell	35	Miner	1	3	Back and hips bruised	Falling slate	Brazil Block No. 8	Vermillion
May 15	Scott McMahon	27	Machine helper	1		Bruised limbs and abdomen	Falling coal	Island Valley No. 4	Clay
May 17	James Patrick	33	Motorman	1	1	Crushed leg	Mine cars and motor	Glen Ayr No. 1	Vigo

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
May 17	Thomas Jameson	30	Driver	1			Bruised arm	Trap door and car	Glen Ayr No. 2	Vigo.
May 18	Frank Mullis	48	Boss driver and pumper	1	1		Two ribs broken	Mule and mine car	Twin No. 5	Greene.
May 19	Frank Criss	32	Machine runner	1	1		Back and hips bruised	Mine car and timber	Consol. Ind. No. 33	Sullivan.
May 20	Elmer Cety	30	Miner	1			Face and hand burned	Exploding shot and gas	Pittsburg	Vigo.
May 20	Wm. Fennent	27	Driver				Three ribs broken	Mine car	Wabash	Vigo.
May 20	Joe Anderson	33	Shot firer				Face cut, arm bruised	Exploding shot	Riverside	Vigo.
May 20	Otto Sersott	21	Driver			1	Hip bruised, broken rib	Falling slate	Elberfeld	Warwick.
May 21	Wm. Jackson	20	Driver				Broken arm	Mine cars	Lincoln	Parke.
May 23	Chas. McDaniels	34	Engineer	1			Bruised arm	By falling	Lewis	Clay.
May 23	Bert Davis	28	Cager	1			Crushed hips	Mine cars	Summit	Greene.
May 24	Wm. Peake	58	Loader	1			Fractured knee cap	Falling slate	Queen	Greene.
May 25	Richard Cox	23	Top boss				Crushed hips	Railroad cars	Tecumseh	Knox.
May 25	C. Fields	17	Driver			1	Hip bruised, rupture	Mine car	Knox.	Knox.
May 26	James Glass	31	Miner	1	4	1	Leg broken	Falling coal	Superior No. 5	Parke.
May 26	John Frantrick	44	Miner	1	4	1	Back and hips bruised	Falling slate	Crown Hill No. 3	Vermillion.
May 27	Sella Momande	35	Miner				Head, arm, hand burned	Igniting some gas	Klondyke	Vermillion.
May 27	Jack Winterbottom	24	Driver				Head and hand burned	Gas explosion	Klondyke	Vermillion.
May 28	Charles Love	60	Trapper	1			Arm broken	Mine car	Crawford No. 6	Clay.
May 28	Robert Bohnert	22	Motorman				Body bruised	Motor and mine car	Gilmour	Greene.
May 28	George Greek	24	Driver				Crushed hand	Falling slate	Hocking	Sullivan.
May 28	Pete Suller	37	Day man	1	4		Bruised back and shoulder	Falling slate	Atherton	Vigo.
May 31	Wm. Barnes	42	Loader	1	6		Head cut, ankle sprain	Falling slate	Lattas Creek	Greene.
May 31	Evert Nichols	25	Loader				Wrist broken	Mine cars	Vandalia No. 21	Greene.
May 31	Geo. Cerlyole	30	Miner	1	1		Bruised arm	Pick point	Clover Leaf	Sullivan.
June 1	James Bundy	19	Driver				Lost 5 teeth, face cut	Mule kick	National Fuel	Vigo.
June 1	Teddy Black	38	Miner	1			Legs hurt	Cage	Buckeye	Vermillion.
June 2	James Baker	21	Driver				Side and back squeezed	Car and rib	Crown Hill No. 3	Vermillion.
June 2	Herman Kennedy	20	Loader				Finger severed	Car and rail	Vivian No. 2	Clay.
June 2	John Oneal	28	Loader	1			Bruised leg	Car	Freeman	Knox.
June 3	John Venman	21	Miner				Broken arm	Motor and roof	Vandalia No. 69	Vigo.
June 4	C. Baine	24	Driver				Broken leg	Car and chain	Klondyke	Vermillion.
June 4	Claude Taylor	27	Driver				Leg and arm bruised	Mine car	Klondyke	Vermillion.
June 4	John Goddard	21	Driver			1	Jaw fractured, face cut	Mule kick	Lincoln	Parke.
June 6	John Williams	18	Machine				Finger crushed	Machine	Grant No. 3	Vigo.
June 6	John Jones	21	Driver	1	1		Hip dislocated	Ran into a fall	Plymouth No. 1	Vigo.

June 6	R. McCrea	23	Driver			Back squeezed	Mule and car	Crown Hill No. 1	Vermillion.
June 6	Harry Johnson	23	Driver			Arm broken	Cars	Miami No. 4	Vigo.
June 8	Phillip August	33	Miner	1		Back strained	Falling slate	National	Vigo.
June 8	L. A. Pennie	51	Miner	1	1	Collar bone fracture	Falling slate	Glenburn	Greene.
June 8	John Wright	28	Timberman	1	2	Hips mashed	Falling slate	Jackson Hill No. 4	Sullivan.
June 8	Chas. Wheeler	18	Loader			Hips and back squeezed	Falling slate	Vandalia No. 10	Sullivan.
June 9	J. G. Turpen	38	Boss jerry	1	4	Arm bruised	Falling slate	Fort Branch	Gibson.
June 9	Dan Ellison	46	Miner		4	Head cut, ankle sprain	Falling slate	Little Giant	Sullivan.
June 10	Andrew Smith	32	Day man		4	Broken wrist	Falling slate	Plymouth No. 1	Vigo.
June 10	Guy Robertson	22	Machine			Leg cut	Machine	Shirley Hill No. 1	Sullivan.
June 10	Clarence Call	19	Driver			Foot bruised	Mule	Crown Hill No. 1	Vermillion.
June 10	John Everhart	23	Driver			Foot mashed	Mine car	Consol. Ind. No. 32	Sullivan.
June 10	Emert McClellan	19	Motorman			Head cut and bruised	Falling slate	Crown Hill No. 1	Vermillion.
June 11	William Drake	60	Driver	1		Leg and back strained	Falling slate	Vandalia No. 4	Greene.
June 11	John McKaine	40	Machine	1	3	Hip cut and bruised	Machine and chain	Erie Canal	Warrick.
June 12	Neal Snider	45	Jerry	1	1	Crushed hips	Falling slate	Jackson Hill No. 4	Sullivan.
June 13	James Holden	68	Day man	1		Rib broken, head cut	Falling slate	Superior No. 2	Parke.
June 13	James Cunningham	18	Driver			Two ribs fractured	Mine car	Glen Ayr No. 1	Vigo.
June 13	John Buchanan	40	Loader	1	1	Back sprained	Falling slate	Hocking	Sullivan.
June 13	David Walton	29	Miner	1	3	Back and hips bruised	Falling prop	Otter Creek No. 2	Vigo.
June 14	George Truitt	29	Machine	1	3	Back sprained	Machine	Hocking	Sullivan.
June 14	James Cunningham	18	Driver			Two ribs fractured	Car	Glen Ayr No. 1	Vigo.
June 14	Lewis Emery	29	Miner	1	1	Leg broken	Falling slate	Vandalia No. 67	Vigo.
June 15	William McCorklin	27	Driver	1	1	Bones in leg fractured	Mine car	Consol. Ind. No. 30	Sullivan.
June 15	William Keeler	35	Miner	1	3	Hips wrenched	Car	Clover Leaf	Sullivan.
June 15	William Bryant	58	Miner	1		Hand cut and bruised	Falling slate	Kelley	Sullivan.
June 16	Frank Berg	28	Machine			Finger broken	Clutch shaft	Mammoth Vein	Sullivan.
June 16	George Briddle	32	Machine	1	1	Head and chest bruised	Falling slate	Plymouth No. 1	Vigo.
June 16	Wm. Brannon	21	Driver			Foot bruised	Car	Forrest	Vigo.
June 18	Wm. Wilks	26	Driver			Head bruised	Falling slate	Vandalia No. 8	Greene.
June 18	Joe Povlick	24	Machine			Head squeezed	Motor	Vandalia No. 9	Greene.
June 18	Otto Wilson	25	Loader	1		Eye ball bruised	Coal	Hocking	Sullivan.
June 19	Osten More	25	Driver			Hips and back mashed	Falling slate	Jackson Hill No. 2	Sullivan.
June 19	T. A. Williams	23	Driver			Arm broken	Mule and car	Mammoth Vein	Sullivan.
June 20	Guy Hudson	20	Driver			Hips squeezed	Car and prop	Clover Leaf	Sullivan.
June 20	Ora Parks	33	Driver	1	4	Fractured skull, leg hurt	Car and mule	Vandalia No. 10	Sullivan.
June 20	Abner Bose	36	Electrician	1	2	Back wrenched	Machine	Consol. Ind. No. 33	Sullivan.
June 20	Frank Harmon	50	Timberman	1	2	Bone in foot broken	Prop	Consol. Ind. No. 33	Sullivan.
June 20	Thos. Armstrong	22	Driver			Hips squeezed	Mule and car	Vandalia No. 8	Greene.
June 20	Joe Scout	52	Driver			Ankle dislocated	Bumper and car	Gilmour	Greene.
June 20	Wm. Wilks	50	Miner	1	7	Head and hand burned	Gas	Kelley	Sullivan.
June 21	Henry Butler	19	Loader	1		Nose broken	Piece of coal	Consol. Ind. No. 33	Sullivan.
June 21	Lou Kitter	26	Jerry	1	1	Hips crushed	Falling slate	St. Clair No. 30	Sullivan.
June 21	Nicholas McGlawson	32	Driver			Leg broken	Mule and cars	Ray No. 2	Vigo.
June 21	Ezekil Holden	68	Carpenter	1		Two ribs broken	Falling slate	Zellar McClellan	Parke.
June 22	Chas. Campbell	25	Miner	1	2	Legs hurt	Coal	Zellar McClellan No. 3	Parke.
June 22	Ande Maxwell	25	Coupler	1		Hip bruised	Cars	Crown Hill No. 1	Vermillion.
June 22	Joseph Kay	19	Machine			Back and ribs bruised	Falling slate	Domestic Block	Vigo.

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
June 23	Ray Snider.....	22	Shooter.....	1	2		Leg cut and bruised.	Falling coal.	Bellevue	Sullivan.
June 24	Cabel Conger.....	24	Machine.....	1			Seven ribs broken.	Falling slate.	St. Clair No. 30.	Sullivan.
June 24	Alfred Cowellier.....	24	Driver.....				Hip bruised.	Car.	Vandalia No. 5.	Greene.
June 24	William Lowes.....	23	Driver.....				Foot bruised.	Car.	Green Valley.	Greene.
June 24	Merle Scott.....	22	Top man.....				Heel severed, foot hurt.	Car.	Twin No. 5.	Greene.
June 25	Harvie Stoppelton.....	40	Driver.....				Back sprained.	Falling slate.	Pittsburg No. 1.	Vigo.
June 27	Martin Montgomery.....	61	Miner.....			2	Leg and ankle bruised.	Cars.	Plymouth No. 1.	Vigo.
June 27	Frank Compton.....	21	Driver.....				Finger broken.	Mule kick.	Pittsburg No. 1.	Vigo.
June 27	Leon Vaughn.....	19	Driver.....				Foot cut and bruised.	Tail chain.	Big Vein.	Clay.
June 27	Geo. Baker.....	46	Loader.....				Wrist dislocated.	Car.	Vandalia No. 20.	Sullivan.
June 28	Harry Gordon.....	23	Miner.....				Back hurt.	Falling slate.	Zellar McClellan No. 4.	Parke.
June 28	Wm. Waldrige.....	27	Loader.....	1	2		Ankle dislocated.	Falling slate.	Parke No. 11.	Parke.
June 28	Harry Wright.....	38	Miner.....	1	6		Ankle cut and bruised.	Falling slate.	Big Vein.	Clay.
June 29	Leonard Prulhier.....	63	Pumpman.....	1	4		Leg broken.	Falling slate.	Miami No. 5.	Vigo.
June 29	Wm. Sneddon.....	34	Machine.....	1	2		Two fingers severed.	Falling pipe.	Vandalia No. 67.	Vigo.
July 2	Lawrence Byers.....	27	Driver.....	1	2		Toe severed.	Skid fell on foot.	Minshall.	Vigo.
July 5	Fred Wood.....	27	Driver.....	1	2		Body bruised.	Mine car.	Minshall.	Vigo.
July 6	J. H. Rice.....	43	Loader.....	1	4		Foot bruised.	Falling coal.	Gilmour.	Greene.
July 6	Thomas K. Jones.....	30	Loader.....	1	3		Two ribs broken.	Falling coal.	Vandalia No. 10.	Sullivan.
July 6	D. E. Boone.....	28	Driver.....	1	2		Back and hips crushed.	Falling slate.	Vandalia No. 10.	Sullivan.
July 6	John Ruthford.....	33	Driver.....				Hand and foot broken.	Falling slate.	Vandalia No. 10.	Sullivan.
July 6	Thomas Reese.....	51	Day man.....	1	6		Cut over eye.	Falling slate.	Crown Hill No. 3.	Vermillion.
July 6	L. M. Roberts.....	41	Timberman.....	1	1		Head cut and ankle sprained.	Falling slate.	Freeman.	Knox.
July 7	James Cox.....	49	Miner.....	1	1		Sprained back.	Falling slate.	Pecock No. 2.	Pike.
July 7	C. M. Collum.....	45	Timberman.....	1	1		Ankle bone broken.	Falling slate.	Little Giant.	Sullivan.
July 8	Richard Braila.....	35	Night boss.....	1	3		Bruised foot.	Falling slate.	Clover Leaf.	Sullivan.
July 8	H. D. Gage.....	30	Driver.....	1			Dislocated hip.	Mine cage.	Consol. Ind. No. 33.	Sullivan.
July 8	R. Gibbons.....	17	Car coupler.....				Two ribs broken.	By mule.	Oak Hill No. 50.	Vermillion.
July 9	Gladstone Smith.....	20	Driver.....				Foot fractured.	Mine car.	Vandalia No. 10.	Sullivan.
July 9	Wm. Smith.....	20	Driver.....				Bruised back and fractured hip.	Falling rock.	Rainbow.	Sullivan.
July 11	James Swalla.....	27	Driver.....	1	2		Broken arm.	Mine car.	Glen Ayr No. 1.	Vigo.
July 12	F. P. Osborn.....	55	Loader.....	1	2		Bruised breast.	Mule kick.	Vandalia No. 81.	Vigo.
July 13	James Varner.....	60	Tracklayer.....	1	2		Broken arm.	Falling slate.	Little Giant.	Sullivan.
July 13	James Van Hook.....	25	Miner.....	1	1		Bruised back.	Falling slate.	Minshall.	Vigo.
July 15	Walter Kreible.....	48	Loader.....	1	2		Head and chest cut, 3 ribs br'k'n	Falling coal.	Island Valley No. 4.	Clay.
July 16	Oscar Carter.....							Falling slate.	Union No. 25.	Sullivan.

July 18	Joseph Stout	52	Driver	1	Collar bone broken	Mine car	Gilmour	Greene.
July 19	Oscar Ridgley	26	Trap man	1	Crushed hips	Mine cars	Vandalia No. 8	Greene.
July 21	Herod Albert	30	Loader	1 3	Crushed foot	Piece of coal	Vandalia No. 9	Greene.
July 21	John Pontonick	35	Miner	1 1	Burned on back and hand	Igniting gas	Little Giant	Sullivan.
July 21	Alexander Osoura	23	Timberman		Bruised back and shoulder	Falling slate	Mammoth	Sullivan.
July 22	Pat. Gallagher	45	Loader		Head and face cut	Exploding shot	Mammoth	Sullivan.
July 22	Chas. Hockett	22	Driver	1 2	Thumb severed	Car wheel and sprag	Brazil Block No. 13	Sullivan.
July 23	Herman Storry	27	Miner		Bruised arm and hip	Falling slate		Sullivan.
July 23	Valentine Bolln.o	38	Loader		Bruised head	Falling slate	Crown Hill No. 3	Vermillion.
July 23	Peter Fay	44	Miner	1 5	Broken rib	Falling down shaft	Vandalia No. 61	Vigo.
July 23	George Overpeck	18	Miner		Rupture	Lifting coal	Plymouth No. 1	Vigo.
July 25	F. Gueldenbaeher		Day man		Leg broken	Falling slate	Parke No. 11	Parke.
July 25	James Dix	35	Machine runner	1 2	Bruised head and breast	Falling slate	Phoenix	Sullivan.
July 25	James Farmer	32	Loader		Broken leg	Falling slate	Union No. 25	Sullivan.
July 26	Hugh Dobbins	28	Day man	1 2	Crushed bone in knee	Falling slate	Twin No. 4	Greene.
July 26	Oscar Dunnin	22	Driver	1	Broken nose	Falling off car	Shirley Hill No. 3	Sullivan.
July 27	Samuel Hawkins	60	Miner	1	Shoulder and breast bruised	Falling slate	Crawford No. 10	Clay.
July 27	Andy York	17	Coupler		Arm broken	Mine cars	Vandalia No. 66	Vigo.
July 28	Arthur Brush	20	Miner		Bruised back	Falling slate	Domestic Block No. 1	Vigo.
July 29	John Robetson	42	Loader	1 8	Crushed hips	Falling slate	Vandalia No. 10	Sullivan.
July 30	Mel Osodoek	40	Miner		Bruised arm and leg	Falling slate	Klondyke	Vermillion.
July 31	Chas. Brewer	41	Jerry	1 1	Broken arm	Falling slate	Little Giant	Sullivan.
Aug. 2	John Miller	47	Loader	1 7	Back and leg crushed	Falling slate	Tecumseh	Knox.
Aug. 4	George Kelley	34	Miner	1	Hands and face burned	Powder explosion	Letsinger	Greene.
Aug. 4	Swan Eck		Miner		Back and side injured	Falling slate	Superior No. 5	Pike.
Aug. 5	Walter Bridgas	19	Driver		Leg cut, ankle sprained	Mine car	Island Valley No. 4	Clay.
Aug. 5	Jesse Hill	55	Loader	1 6	Arm and hip bruised	Falling slate	Knox	Knox.
Aug. 5	Joseph Bouillez	28	Miner	1	Head, back and arms burned	Explosion of gas	Minshall	Vigo.
Aug. 5	Daniel Bouillez	16	Miner		Hands, arms, face burned	Explosion of gas	Minshall	Vigo.
Aug. 6	Harry Spencer	26	Sprager	1 3	Crushed ankle	Mine car	Miami No. 4	Vigo.
Aug. 6	Joe Tempks	55	Miner		Bruised body	Falling slate	Minshall	Vigo.
Aug. 7	Chas. Dixon	66	Rais'g smoke st'k	1 2	Broken leg	Falling jin pole	Island Valley No. 4	Clay.
Aug. 8	Wm. Zimmerman	20	Trip rider		Crushed arm and finger	Mine motor	Island Valley No. 4	Clay.
Aug. 8	Thomas Pringle	29	Miner	1 2	Crushed foot	Falling slate	Shirley Hill No. 3	Sullivan.
Aug. 8	Henry Shultz	27	Cager	1	Hand broken	Coal falling down shaft	Dering No. 13	Sullivan.
Aug. 8	Simon Pometlo	24	Miner		Injured back	Falling slate	Crown Hill	Vermillion.
Aug. 9	Joseph Wright	36	Miner	1 2	Dislocated back	Falling slate	Lewis	Clay.
Aug. 10	Mike Colletto	50	Miner	1 2	Finger severed	Falling coal	Superior No. 5	Parke.
Aug. 10	George Seokum	53	Miner	1 1	Bruised knee	Falling coal	Superior No. 5	Parke.
Aug. 10	Joseph Melchaw		Miner	1 3	Mashed leg	Falling coal	Superior No. 5	Parke.
Aug. 10	Bert Lowe	20	Boss driver		Jaw bone and 3 ribs broken	Falling slate	Forrest	Vigo.
Aug. 11	Allen Petrei	27	Driver	1 2	Two bones broken in foot	Mine cars	Lower Vein	Vigo.
Aug. 13	Chas. Faught	31	Loader	1	Ribs and back bruised	Falling rock	Union No. 25	Sullivan.
Aug. 13	Dock Fyne	22	Driver		Rib broken	Mine car	Crown Hill No. 3	Vermillion.
Aug. 15	A. Cloushude	31	Miner	1 2	Arm broken	Falling slate	Vandalia No. 9	Greene.
Aug. 15	Roy Lewis	14	Trapper		Three fingers mashed	Mine car	Tecumseh	Knox.
Aug. 15	Chas. McAdams	27	Loader		Both legs broken	Falling slate	Mammoth Vein	Sullivan.
Aug. 15	Turkey Tuzette	36	Loader	1 1	Leg and arm cut	Falling coal	Crown Hill No. 3	Vermillion.

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Aug. 15	Boris Braunon	60	Tracklayer	1	1		Hands and face burned	Igniting some gas	Minshall	Vigo.
Aug. 16	Henry Dierdorf	37	Miner	1	3		Head, side and hips bruised	Falling slate	Crawford No. 6	Clay.
Aug. 16	Arthur Auberry	32	Machine runner	1	1		Broken leg	Falling slate	Vandalia No. 8	Greene.
Aug. 16	Clyde Horbon	26	Loader	1	2		Broken leg	Falling slate	Summitt	Greene.
Aug. 18	J. W. Bush	44	Miner	1			Bruised body	Oswald	Gibson.	
Aug. 18	Jerry Starrett		Miner	1	4		Bruised hip and back	Falling coal	Superior No. 5	Parke.
Aug. 18	Tona Mick		Miner	1	1		Mashed ankle and foot	Falling coal	Superior No. 5	Parke.
Aug. 20	A. W. Watson	34	Machine runner	1			Broken foot	Mining machine	Vandalia No. 10	Sullivan.
Aug. 21	Wm. Veach		Driver	1	1		Finger severed	Mine car	Lewis	Clay.
Aug. 22	John Jerman	21	Driver				Two ribs broken	Mule kick	Vandalia No. 20	Greene.
Aug. 22	Earl Howard	20	Bottom hand				Finger severed	Mine cars	Freeman	Knox.
Aug. 22	John Cabbage	46	Day man	1	2		Bruised back and legs	Falling slate	Superior No. 3	Parke.
Aug. 22	Frank Compton	30	Driver	1			Face and hands burned	Exploding shot	Pittsburg	Vigo.
Aug. 22	Seth Blue	30	Miner	1			Face and hands burned	Exploding shot	Pittsburg	Vigo.
Aug. 23	John Myres	32	Cager	1	3		Back and arm squeezed	Mine car	Tecumseh	Knox.
Aug. 24	Horace Neal	19	Driver				Bruised hips	Mine car	Vandalia No. 9	Greene.
Aug. 24	Orval Skinner	17	Driver	1			Broken leg, ankle dislocated	Falling slate	Gilmour	Greene.
Aug. 26	Howard Taylor	25	Driver	1	1		Broken hand	By mule	Vandalia No. 5	Greene.
Aug. 26	Joe Paelken	20	Driver				Broken leg	Mine car	Freeman	Knox.
Aug. 27	Fred Down	22	Driver					Mine cars	Phoenix	Sullivan.
Aug. 27	John McDonald	23	Cager	1	1		Head and wrist cut	Falling coal	Rainbow	Sullivan.
Aug. 27	Van White	19	Driver				Back and shoulder bruised	Falling slate	Brazil Block No. 14	Sullivan.
Aug. 27	Frank Gunter	55	Mine boss	1			Three ribs broken	Falling rock	Banner	Vanderburgh.
Aug. 27	Chas. Barrel	22	Driver				Bruised chest and leg	Mine car	Glen Ayr No. 1	Vigo.
Aug. 28	John Scott	30	Driver	1	3		Ruptured	Mule kick	Electric	Warrick.
Aug. 29	Earl Woodruff		Miner				Bruised back	Falling coal	Lewis	Clay.
Aug. 29	Felix Osborn	41	Miner	1			Bruised leg and shoulder	Falling coal	Oswald	Gibson.
Aug. 29	Ech Orukey	18	Driver		2		Bruised back	Falling slate	Superior No. 3	Parke.
Aug. 30	P. F. Hawkins	50	Loader		1		Bruised hip and ankle	Falling rock	Rainbow	Sullivan.
Aug. 30	J. J. Brodie	63	Crattie man	1			Dislocated shoulder	Mine car	Consol. Ind. No. 32	Sullivan.
Aug. 30	John Albentine	37	Machine runner	1	1		Bruised back	Falling slate	Crown Hill No. 3	Vermillion.
Aug. 30	Claude Anderson	28	Driver	1			Face, shoulder and back cut	Falling slate	Forrest	Vigo.
Aug. 31	Ed. Auberry	66	Loader	1	8		Head, shoulder and leg cut	Falling slate	Vandalia No. 8	Greene.
Aug. 31	Isaac Corica	37	Miner				Broken leg	Falling slate	Ray No. 2	Vigo.
Sept. 2	Alber Necole		Day man	1	2		Bruised shoulder	Falling slate	Zellar McClellan No. 5	Parke.
Sept. 2	Wm. Baldon	57	Miner		3		Leg broken, body bruised	Going back on shot	Little Giant	Sullivan.

Sept. 3	Baxter Bare	19	Motorman			Head cut	Mine motor	Gilmour	Greene.
Sept. 6	Wm. Geser	26	Driver	1	2	Bone broken in arm	Low place in roof	Erie Canal	Warriek.
Sept. 6	Richard Oats	18	Driver			Squeezed hips and ruptured	Mine car	Forrest	Vigo.
Sept. 6	Wm. Jukes	40	Shoveler	1	2	Ankle fractured	Mine machine	Parke No. 12	Parke.
Sept. 6	Edward Howard	47	Cutting a wire	1	1	3 ribs broken, shoulder bruised	Falling from a pole	Zellar McClellan No. 2	Parke.
Sept. 6	Wm. Easton	35	Jerry			Bruised back, finger broken	Falling slate	Knox	Knox.
Sept. 6	Pearce Brown	30	Driver			Injured internally	Loading some oil	Freeman	Knox.
Sept. 6	Geo. Fitzpatrick	32	Miner	1	3	Bruised back and leg	Falling slate	Glen Burn	Greene.
Sept. 7	Thomas Shore	28	Loader	1		Bruised back and hips	Falling slate	Vandalia No. 10	Sullivan.
Sept. 7	Wm. McQuillen	36	Machine	1	2	Fractured rib	Falling prop	Rainbow	Sullivan.
Sept. 7	Stem Kendall	28	Miner	1		Bruised leg	Falling coal	Pittsburg No. 1	Vigo.
Sept. 8	John Clinton	16	Driver			Left groin bruised	Mine door and car	Crown Hill No. 3	Vermillion.
Sept. 8	Frank Lovelers	26	Driver	1	2	Fractured ribs	Mule kick	Little's Ind.	Pike.
Sept. 8	Edgar Kences	30	Miner			Body burned	Powder burning	Twin No. 5	Greene.
Sept. 9	Ben Letinger	21	Driver			Finger severed	Tail chain and car	Vivian No. 2	Clay.
Sept. 9	John Gillen	24	Driver	1		Bruised leg	Car and prop	Freeman	Knox.
Sept. 9	Doinick Basse	22	Miner			Back injured	Falling slate	Crown Hill No. 3	Vermillion.
Sept. 10	Ross Swinehart	25	Driver	1		Broken leg	Mine car	Sugar Valley	Vigo.
Sept. 12	John Boermreg	24	Miner			Broken leg	Falling slate	Klondyke	Vermillion.
Sept. 12	Oar Holt	23	Shooter			Head and hand cut	A shot	Buckeye	Vermillion.
Sept. 13	James Schearn	32	Machine			Back and shoulder bruised	Falling slate	Wabash	Vigo.
Sept. 13	Guy Rawley	17	Miner			Arm broken	Mine car	Crown Hill No. 3	Vermillion.
Sept. 13	Charles Phillips	45	Miner	1		Back and shoulder sprained	Falling slate	Keystone	Sullivan.
Sept. 14	Bert Reese	21	Miner			Skull fractured	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	Dan Ferguson	26	Miner			Neck and arm burned	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	W. C. Beatty	40	Miner			Hand and face burned	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	Charles Young	21	Miner	1		Hand and face burned	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	James Baxter	21	Miner			Arm broken	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	Wm. Celand	26	Day man				Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	David Houston	53	Miner	1	3	Hand and arm burned	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	George Ross	25	Miner			Face burned, leg cut	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	Ora Parks	32	Driver	1	4	Face and hands burned	Explosion of gas	Vandalia No. 10	Sullivan.
Sept. 14	Vincent Pelossa	27	Loader			Back cut and bruised	Falling coal	Crown Hill No. 3	Vermillion.
Sept. 16	Howard Taylor	23	Driver	1		Fractured rib	Mule	Vandalia No. 5	Greene.
Sept. 17	Leslie Reynolds	24	Driver	1	1	Finger broken	Falling	Wizard	Clay.
Sept. 17	Laurel Welch	17	Loader			Toe cut	Falling coal	Phoenix	Sullivan.
Sept. 19	Lon Marlow	40	Loader	1	6	Ankle bruised	Falling slate	Phoenix	Sullivan.
Sept. 20	Piaz Jones	40	Machine	1	2	Left hand cut	Machine	Sunflower	Sullivan.
Sept. 20	Daxton Frazier	45	Loader	1	1	Mashed hand	Falling slate	Freeman	Knox.
Sept. 20	Eli Fielding	56	Miner	1	5	Hand and back bruised	Falling slate	Eureka No. 5	Clay.
Sept. 21	Paul Adams	19	Driver			Bone in arm broken	Tail chain	Phoenix	Sullivan.
Sept. 21	Wm. Reese	44	Loader			Bone in leg broken	Electric wire	Phoenix	Sullivan.
Sept. 23	A. D. Greenwood	28	Machine	1		Finger broken	Falling slate	North West	Greene.
Sept. 23	George Norton	19	Driver			Squeezed hips	Car and rib	Forrest	Vigo.
Sept. 23	Olla Bell	22	Driver			Head cut, leg mashed	Mine car	Erie Canal	Warriek.
Sept. 27	Noble Guyer	20	Driver			End of thumb severed	Car and prop	Freeman	Knox.
Sept. 28	Wm. Opendauff	24	Driver			Bruised face	Kicked by mule	Freeman	Knox.
Sept. 29	W. M. Loyd	46	Loader	1	8	Hurt in back	Falling slate	Consol. Ind. No. 32	Sullivan.

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Sept. 29	Paul Pepriek	29	Miner	1	6		Bone splintered	Falling slate	Zellar McClellan	Parke.
Sept. 30	Frank Boling	26	Trip rider	1			Head and shoulder cut	Mine car	Crown Hill No. 4	Vermillion.
Oct. 1	Chas. E. Stull	29	Miner	1			Polvic bone broken	Mine car	Elberfeld	Warrick.
Oct. 1	Roy Prutal	21	Driver	1			Bruised left testicle	Kicked by mule	Riverside	Vigo.
Oct. 1	Henry Johnson	47	Jerryman	1	5		Bruised hips and side	Falling slate	Lattas Creek	Greene.
Oct. 1	Mike Meyers	44	Miner	1			Bruised back	Falling slate	Brazil Block No. 4	Clay.
Oct. 4	L. E. Lgner	24	Driver		1		Ankle and back sprained	Falling slate	Ayrshire No. 5	Pike.
Oct. 4	Ed. Cunningham	37	Driver				Bruised hips	Falling slate	Vandalia No. 5	Greene.
Oct. 4	Ernest Sisk	23	Driver				Bruised hips	Mine car	Vandalia No. 2	Greene.
Oct. 5	John Wolford	26	Driver				Three ribs broken	Kicked by mule	Lattas Creek	Greene.
Oct. 5	Dave Wesley	31	Driver	1			Crushed foot	Mine car	Minshall	Vigo.
Oct. 6	Perry Hudson	27	Machine				Bruised knee	Machine	Clover Leaf	Sullivan.
Oct. 6	Fred Fulkerson	21	Driver	1			Leg broken	Mule	Vandalia No. 5	Greene.
Oct. 7	Wm. Gilmour	19	Driver				Leg bruised	Kicked by mule	Phoenix	Sullivan.
Oct. 7	Roy Bennett	20	Motorman				Back and ankle sprained	Falling slate	Hocking	Sullivan.
Oct. 8	Mike Morricio	43	Miner				Broken ankle	Falling slate	Plymouth No. 1	Vigo.
Oct. 8	John Rolonds	31	Digger	1			One rib broken	Falling coal	Brazil Block No. 8	Vermillion.
Oct. 10	John Hoovick	32	Driver	1	2		Two ribs fractured	Mule	Vandalia No. 5	Greene.
Oct. 11	John Hughs	29	Jerryman				Right foot hurt	Nail pierce	Vandalia No. 10	Sullivan.
Oct. 11	Oscar Warson	20	Miner				Broken leg	Falling slate	Shirley Hill No. 3	Sullivan.
Oct. 13	Thos. Carling	34		1	1		Cut face, bruised chest	Shot	Vandalia No. 9	Greene.
Oct. 13	John Peroni	28	Miner	1	2		Bruised internally	Falling draw slate	Eureka No. 5	Clay.
Oct. 13	August Frodemond	31	Miner	1	4		Broken leg	Falling slate	Ind. Block No. 1	Clay.
Oct. 14	William Chapman	35	Timberman				Broken leg	Falling rock	Sunnyside	Vanderburgh.
Oct. 15	Frank Keller	46	Machine	1	4		Cut head, bruised chest	Falling coal	Vandalia No. 8	Greene.
Oct. 15	Albert Klensener	21	Driver				Bruised face	Kicked by mule	Vandalia No. 81	Vigo.
Oct. 15	Sylvester Saracosta	45	Miner	1			Mashed nose	Coal	Vandalia No. 67	Vigo.
Oct. 16	Chas. Bachmer	50	Timberman	1	2		Broken foot	Falling slate	Klondyke	Vermillion.
Oct. 18	David Swan	27	Machine				Thumb severed	Machine	Glen Ayr No. 1	Vigo.
Oct. 19	Wm. Howard	51	Timberman	1			Bone in hand fractured	Falling slate	Clover Leaf	Sullivan.
Oct. 21	James Galloway	33	Cager	1	3		Hand cut	Piece of coal	Klondyke	Vermillion.
Oct. 22	John Shinder	32	Shooter	1			Hand and face burned	Fire from a shot	Klondyke	Vermillion.
Oct. 24	James Dniones	24	Driver				Nose cut	Kicked by mule	Knox	Knox.
Oct. 24	Wm. Neusboum	19	Driver				Collar bone broken	Mine car	Clover Leaf	Sullivan.
Oct. 24	E. C. Cooper	22	Driver				Breast and back hurt	Falling slate	Plymouth No. 1	Vigo.
Oct. 25	Chas. Graves	44	Day man		3		Hip and head bruised	Falling slate	Crown Hill No. 3	Vermillion.

Oct. 26	Wm. Nehoe	30	Machine	1	2	Finger severed	Machine	Black Creek	Greene.
Oct. 27	Dan Hummel	67	Miner			Eye ball cut	Piece of coal	Princeton	Gibson.
Oct. 28	Jos. Snedden	19	Driver			Back and hips bruised	Mine cars	Shirley Hill No. 3	Sullivan.
Oct. 29	Wm. Jones	56	Miner	1		Bruised arms and legs	Falling coal	Wizard	Clay.
Oct. 29	Albert Niveres	27	Miner	1		Broken leg	Falling coal	Fairview	Parke.
Oct. 29	Joseph Hall	35	Loader			Fractured ribs	Piece of slate	Pittsburg No. 1	Vigo.
Oct. 31	Lawrence Montgomery	18	Driver			Bruised shoulders	Mine car	Littles, Ind	Pike.
Oct. 31	Ray Watson	21	Driver			Broken ribs	Mine car	Black Hawk	Sullivan.
Oct. 31	Stant. Persinger	21	Driver			Broken knee cap	Falling slate	Caledonia	Warrick.
Nov. 1	Wm. Cressby	29	Machine	1	1	Hip bruised	Falling slate	Lattas Creek	Greene.
Nov. 1	Chauncey Carr	17	Driver			Shoulder and ankle bruised	Mine car	Vandalia No. 10	Sullivan.
Nov. 1	Leburn Gross	29	Machine	1		Face bruised, foot hurt	Falling slate	Lattas Creek	Greene.
Nov. 2	Walter Lamb	45	Loader	1	3	Bruised body	Falling slate	Vandalia No. 4	Greene.
Nov. 2	Fred Jones	19	Miner			Leg injured	Pitt running over leg	Crown Hill No. 3	Vermillion.
Nov. 4	Chas. Ryden	37	Miner	1		Hand broken	Falling coal	Princeton	Gibson.
Nov. 4	Geo. Price	40	Miner	1	1	Strained back	Falling slate	Twin No. 4	Greene.
Nov. 4	Chas. Spitlen	19	Driver			Strained foot	Car	Vandalia No. 81	Vigo.
Nov. 5	Alex. Couvilinear	21	Driver			Broken leg	Mine car	Vandalia No. 5	Greene.
Nov. 6	Otto Ax	18	Coupler			Broken collar bone	Mine car	Island Valley No. 4	Clay.
Nov. 6	Sam Chaney	27	Miner	1		Finger mashed	Slate	Letsinger	Greene.
Nov. 8	Wm. Poddock	45	Driver	1	4	Bruised hips	Car and rib	Fairview	Parke.
Nov. 9	Herb Creal	39	Miner	1	3	Cut head, back hurt	Rolling coal	Forrest	Vigo.
Nov. 10	Cecil Saliards	22	Driver			Bone in ankle broke	Car	Jackson Hill No. 2	Sullivan.
Nov. 11	John Myers		Miner	1		Cut head, bruised back	Falling coal	Klondyke No. 3	Clay.
Nov. 11	Lafe Thomas	19	Driver			Broken collar bone	Falling off chain	Vandalia No. 5	Greene.
Nov. 12	S. Spainski	38	Miner			Bruised body	Falling slate	Klondyke	Vermillion.
Nov. 12	Frank Selvie	56				Head, arms and hands hurt	Shot	Grant	Vigo.
Nov. 14	H. C. Raider	45	Night boss	1	3	Injured in the eye	Cable and machine	Vandalia No. 8	Greene.
Nov. 15	Walter Hummel	18	Coupler			Ankle and instep cut	Mine cars	Rainbow	Sullivan.
Nov. 15	Fred Coleman	30	Shooter	1		Arms and neck burned	A shot	Rainbow No. 6	Vermillion.
Nov. 15	Grover Poe	20	Driver			Three ribs broken	Chain and car	Riverside	Vigo.
Nov. 16	Russel May	18	Driver			Mashed foot	Car bumper	Island Valley No. 4	Clay.
Nov. 16	Bert Erwin	24	Driver	1	2	Finger torn open	Chain	Wizard	Clay.
Nov. 17	Frank Moore	35	Driver	1		Squeezed chest	Car and prop	Vandalia No. 2	Greene.
Nov. 17	Thos. Vaughn	28	Asst. electrician			Broken collar bone	Motor and top	Glen Ayr No. 1	Vigo.
Nov. 19	Robert McKee	25	Miner			Mashed breast	Falling coal	Twin No. 5	Greene.
Nov. 19	Thornton Reburger	26	Driver			Bruised back and hips	Mine car	Consol. Ind. No. 32	Sullivan.
Nov. 20	Russell Deal	19	Driver			Crushed hips	Mine car	Tecumseh	Knox.
Nov. 20	J. C. Walters	50	Night boss	1	4	Palm of hand torn	Car door	Jackson Hill No. 2	Sullivan.
Nov. 20	T. Murdock	26	Driver	1	3	Hand mashed	Mine car	Oak Hill No. 50	Vermillion.
Nov. 21	Steve Ramink	22	Miner			Back and legs cut	Falling slate	Jackson Hill No. 2	Sullivan.
Nov. 21	D. F. Ragan	27	Loader	1	1	Face and neck burned	Gas	Plymouth No. 1	Vigo.
Nov. 21	Lewis Marlin	54	Miner	1		Breast bruised	Falling coal	Vandalia No. 69	Vigo.
Nov. 22	Claud Minnis	24	Driver			Wrist hurt	Car and coal	Princeton	Gibson.
Nov. 22	J. N. Stivers	49	Loader	1	8	Arm broke, head cut	Falling rock	Gilmour	Greene.
Nov. 22	James South	45	Cager	1	3	Arm bruised	Cage	Vandalia No. 21	Greene.
Nov. 22	Hiram Vaughn	41	Fireman			Body and legs burned	Steam pipe	Littles, Ind	Pike.
Nov. 22	Allen Loveless	45	Trimmer		1	Hips burned	Steam pipe	Littles, Ind	Pike.

TABLE OF SERIOUS ACCIDENTS—Continued.

DATE.	Name.	Age.	Occupation.	Dependents.			Nature of Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Nov. 22	Mac Tack.	33	Shooter.	1			Hands and face burned.	Fire from powder.	Klondyke.	Vermillion.
Nov. 22	Willard King.	25	Shooter.				Cut in eye.	Drill.	Vandalia No. 69.	Vigo.
Nov. 24	Newt Kisinger.	24	Driver.	1			Bruised hip.	Car.	Green Valley.	Greene.
Nov. 25	D. W. Gotiger.	43	Trimmer.	1	3		Bruised head and shoulder.	Car and coal.	Jackson Hill No. 2.	Sullivan.
Nov. 26	Frank McVay.	25	Driver.	1			Five teeth knocked out.	Kicked by mule.	Fairview.	Parke.
Nov. 26	Floyd Phillips.	27	Driver.	1	1		Arm broken.	Kicked by mule.	St. Clare.	Sullivan.
Nov. 28	James Harper.	46	Miner.	1	3		Leg.	Falling coal.	Vandalia No. 4.	Greene.
Nov. 28	Clarence Everhart.	20	Driver.				Arm.	Mine car.	Consol. Ind. No. 32.	Sullivan.
Nov. 29	Pete Beaman.	17	Driver.				Ankle.	Mine car.	Vandalia No. 2.	Greene.
Nov. 29	Louis Spner.	37	Driver.			2	Back and leg cut.	Mine car.	Knox.	Knox.
Nov. 29	Henry Lawson.	22	Loader.			2	Two fingers broken.	Block and chain.	Fairview.	Parke.
Nov. 29	Eugene Eaves.	30	Driver.			2	Jaw bone.	Mule.	Klondyke.	Vermillion.
Nov. 30	Harvey Sates.	24	Trimmer.			2	Back injured.	Coal shoot.	Fairview.	Parke.
Nov. 30	Ervey Reynolds.	25	Trimmer.	1			Three ribs broken.	Coal shoot.	Fairview.	Parke.
Dec. 1	Ed Riggles.	27	Loader.	1			Ribs broken, bruised knee.	Falling slate.	Vandalia No. 9.	Greene.
Dec. 2	A. Marcine.	25	Miner.			2	Back and ribs bruised.	Mine car.	Oak Hill No. 50.	Vermillion.
Dec. 3	David Morgan.	25	Car coupler.			2	Finger amputated.	Mine cars.	Dickson.	Greene.
Dec. 3	Robert Foster.	27	Jerry.	1	3		Arm broken, head cut.	Falling slate.	Forrest.	Vigo.
Dec. 5	Clyde McKinney.	20	Driver.	1			Ribs broken, back sprained.	Mine cars, mule.	Vandalia No. 10.	Sullivan.
Dec. 10	Wm. Carte.	35	Night boss.				Broken leg.	Falling slate.	Princeton.	Gibson.
Dec. 12	S. Jackson.	56	Miner.				Foot broken, leg bruised.	Falling coal.	Oak Hill No. 50.	Vermillion.
Dec. 10	Arthur Bowholz.	14	Miner.				Hand cut.	Loaded car and roof.	Plymouth No. 1.	Vigo.
Dec. 12	Frank Johnson.	30	Miner.	1	1		Leg broken.	Falling coal.	Freeman.	Knox.
Dec. 13	Joseph Hyde.	32	Machine runner.	1			Leg, ribs broken, cut and bruised.	Falling slate.	C. & I.	Sullivan.
Dec. 13	Elmer Gardner.	48	Machine runner.	1	5		Leg broken.	Mining machine.	Freeman.	Knox.
Dec. 13	Oscar Walters.	25	Loader.	1	1		Head cut, back, side bruised.	Falling coal and slate.	Rainbow.	Sullivan.
Dec. 15	Wm. Bell.	35	Loader.				Arm broken, crushed.	Falling slate.	Knox.	Knox.
Dec. 15	Wm. Batter.	30	Loader.				Leg broken, crushed, bruised.	Falling slate.	Knox.	Knox.
Dec. 15	Wm. Bell.	35	Miner.				Bruised arm and back.	Falling slate.	Tecumseh No. 1.	Knox.
Dec. 15	Stanley Mushka.	35	Miner.				Arms broken.	Going back on shot.	Knox.	Knox.
Dec. 16	Dennie Church.	32	Helping motor.	1			End of thumb severed.	By trolley pole.	Grant No. 3.	Vigo.
Dec. 16	John Corgate.	36	Day man.	1	4		Mashed hip and leg.	Falling slate.	Vandalia No. 67.	Parke.
Dec. 16	Crawford Riley.	23	Driver.			1	Hand broken.	Mule.	Superior No. 5.	Sullivan.
Dec. 17	Earl Weaver.	27	Miner.	1	2		Paralyzed below waist.	Falling slate.	Averill No. 1.	Greene.
Dec. 17	Fred Pentz.	22	Miner.	1			Thumb severed at first joint.	Falling coal.	Vandalia No. 2.	Clay.
Dec. 19	Joe Dorman.	51	Flat trimmer.				Skull fractured.	Falling, striking head.	Crawford No. 10.	Sullivan.
									Jackson Hill No. 2.	Sullivan.

Dec. 19	Roscoe Hall.....	22	Trackman.....			Finger severed end.....	Coal on car and roof.....	Reliance.....	Sullivan.
Dec. 19	H. F. Cobb.....	36	Shot firer.....			Burns on face and hands.....	Discharging shots.....	Carlisle.....	Sullivan.
Dec. 19	Steve Waucheski.....	29	Miner.....	1		Leg broken and bruised.....	Falling coal.....	Jackson Hill No. 2.....	Sullivan.
Dec. 20	Bill Order.....	44	Miner.....			Burned face, hands and body..	Explosion of powder.....	Chandler.....	Warrick.
Dec. 22	Sam Ashpy.....	30	Loader.....	1	2	Back broken or fracture, spine.	Falling slate.....	Freeman.....	Knox.
Dec. 22	Stane Ruzanick.....	24	Loader.....			Foot mashed.....	Mine car.....	Vandalia No. 9.....	Greene.
Dec. 23	Wm. Muchmore.....	24	Driver.....	1	3	Leg broken and bruised.....	Falling from mine car.....	Blackburn No. 2.....	Pike.
Dec. 24	Joe Bubolo.....	33	Driver.....	1	1	Head cut and body bruised.....	Mule and mine cars.....	Klondyke.....	Vermillion.
Dec. 27	E. E. Nation.....	52	Top boss.....	1	3	Arm broken.....	Fly-wheel on engine.....	Clover Leaf.....	Sullivan.
Dec. 27	Arch Maxwell.....	30	Driver.....	1		Fingers bruised.....	Mine cars and boulder.....	Crown Hill No. 1.....	Vermillion.
Dec. 27	Arch Foxworthy.....	19	Loader.....			Finger severed.....	Crowbar and lump of coal.....	Domestic No. 1.....	Vigo.
Dec. 28	Mike Coffee.....	20	Driver.....			Collar bone fractured.....	Loaded mine car.....	Ayrshire No. 4.....	Pike.
Dec. 28	Joe Reso.....	21	Tracklayer.....	1		Finger severed.....		Crown Hill No. 1.....	Vermillion.
Dec. 28	Chas. McMahon.....	26	Jerry.....			Hip cut and bruised ankle.....	Mine car and rib.....	Dickson.....	Greene.
Dec. 29	Chas. Kolomskas.....	30	Shot firer.....			Burned head, face and hands.....	Discharging shots.....	Klondyke.....	Vermillion.
Dec. 29	John Miller.....	27	Machine runner.....			Bruised abdomen.....	Mining machine.....	Peacock No. 2.....	Pike.
Dec. 29	William Green.....	45	Miner.....	1		Dislocated ankle.....	Falling slate.....	Ayrshire No. 4.....	Pike.
Dec. 30	Chas. Schoffer.....	25	Driver.....			Cut and bruised face.....	Mule.....	Vandalia No. 69.....	Vigo.
Dec. 30	Robert Ferills.....	30	Jerry.....	1	2	Hand broken and bruised hips.....	Falling slate.....		

ACCIDENTS TO MINE PROPERTY.

The following is a brief description of each of the most notable accidents occurring to mine property during the year 1910.

Blackburn Mine No. 2, Pike County: At firing time on the afternoon of January 7th a windy shot due to an excessive over-charge of powder caused an explosion of powder gases, resulting in considerable damage to the mine property. Fortunately no persons were injured. We were unable to learn the financial loss.

Riverside Mine, Vigo County: A serious explosion of powder gases, blasting powder and coal dust combined occurred in this mine on the evening of January 8th, caused by a blown-out shot, the flames from which exploded a keg of powder carelessly left within range of the shot. Added to these forces was an amount of carbon monoxide, distilled from some very fine coal dust hurled into the flames from the blast and those of the exploding powder, the dust in this mine being of a highly inflammable nature. No person was injured, due to the fact that all the workmen were out of the mine except the shot firers, two in number, who were on the opposite side of the mine to that of the explosion when it occurred. Some little property damage, however, resulted, the amount of which we did not learn.

Consolidated No. 33 Mine, Sullivan County: A fire of incendiary origin occurred in this mine Sunday, January 16. The fire was discovered in a short time after it had started and was extinguished before it had gained much headway. The loss to property amounted to about \$300.

Vandalia No. 67 Mine, Vigo County: A serious gob fire occurred in this mine on the night of January 26. By the time the fire was discovered, i. e., early on the morning of the following day, it had gained such headway that it was impossible to enter the mine by means of the main hoisting shaft. A number of brattices were constructed and the fire sealed off and gotten under control during the forenoon of the 28th. In sealing off the fire it was necessary to construct brattices across some of the principal entries and air courses, necessitating the mine to remain idle fifteen days, at which time the seals were broken and the fire was found to have been extinguished. The financial loss was estimated at ten thousand dollars.

Wheatland Mine, Knox County: An explosion caused by a number of badly placed shots occurred in this mine February

26th, resulting in considerable damage to the mine but no injury to persons.

Hocking Mine, Sullivan County: The entire top works at this mine, including engine and boiler-room and tippie, were destroyed by fire July 23d, in addition to which fifteen valuable mine mules were lost, having been suffocated by smoke. The financial loss was estimated at \$8,500.

Miami No. 6 Mine, Vigo County: An explosion caused by a number of shots placed in violation of statute occurred at 3:30 p. m., firing time, September 17th, resulting in the destruction of the fan casing and the stairway in the escape shaft being torn out. No estimate as to amount of financial loss was secured.

Reliance Mine, Sullivan County: A gob fire which had been burning for several months and had been sealed off with brattices composed of dirt, coal slack, slate and timbers, burned through one of these brattices on the night of October 16th and for a time threatened to destroy the entire property. The company employed all of their regular day men that they could get to work, combating the fire until Tuesday morning at 11 o'clock, the 19th, at which time the mine committee ordered all the day men out of the mine. This resulted in a serious handicap to the efforts of the company to extinguish the fire, but with the aid of all their monthly men the fire was finally gotten under control, and was again sealed off. This act of the mine committee was committed through pure spite to the mine boss and superintendent. No financial loss given.

Black Creek Mine, Greene County: The tippie, fan house and blacksmith shop at this mine were destroyed by fire October 29th. Financial loss \$8,000.

MINE DIRECTORY.

CLAY COUNTY.

NAME OF COMPANY.	Address of Company.	Name of Mine.
Bee Ridge Coal Co.....	Brazil.....	Bee Ridge.
Crawford Coal Co.....	Brazil.....	Crawford No. 11.
Crawford Coal Co.....	Brazil.....	Crawford No. 6.
Crawford Coal Co.....	Brazil.....	Crawford No. 10.
McClelland Block Coal Co.....	Brazil.....	Brazil No. 4.
Indiana Block Coal Co.....	Saline City.....	Indiana Block No. 1.
Coal Bluff Mining Co.....	Terre Haute.....	Plymouth No. 2.
C. Ehrlich Coal Co.....	Turner.....	Klondyke No. 3.
American Clay Manufacturing Co.....	Brazil.....	Monarch.
Eureka Block Coal Co.....	Terre Haute.....	Eureka No. 5.
Treager Bros.....	Brazil.....	Treager.
Harrison Coal & Mining Co.....	Clay City.....	Harrison No. 5.
Hall & Zimmerman.....	Brazil.....	Wizard.
Progressive Coal & Mining Co.....	Brazil.....	Progressive.
Big Vein Mining Co.....	Terre Haute.....	Lewis.
Vivian Colliers Co.....	Chicago, Ill.....	Vivian No. 1.
Vivian Colliers Co.....	Chicago, Ill.....	Vivian No. 2.
United Fourth Vein Coal Co.....	Linton.....	Island Valley No. 4.
German Coal Co.....	Brazil.....	German No. 1.
Schrepferman Coal Co.....	Brazil.....	Schrepferman No. 1.
Schrepferman Coal Co.....	Brazil.....	Schrepferman No. 2.

DAVISS COUNTY.

Daviss County Coal Co.....	Montgomery.....	Montgomery No. 4.
Horney & Winterbottom.....	Washington.....	No. 3.
Mutual Mining Co.....	Cannelburg.....	Mutual.
Mandabach Bros.....	Washington.....	Mandabach.
Winklepeck & Overton.....	Raglesville.....	Winklepeck.

FOUNTAIN COUNTY.

Rush Coal Co.....	Toledo, Ohio.....	Indio.
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GIBSON COUNTY.

Princeton Coal & Mining Co.....	Princeton.....	Oswald.
Fort Branch Coal & Mining Co.....	Fort Branch.....	Fort Branch.
Wyoming Coal Co.....	Francisco.....	Francisco.

GREENE COUNTY.

United Fourth Vein Coal Co.....	Linton.....	Black Creek.
United Fourth Vein Coal Co.....	Linton.....	Dickason.
United Fourth Vein Coal Co.....	Linton.....	Sponsler.
United Fourth Vein Coal Co.....	Linton.....	Antioch.
United Fourth Vein Coal Co.....	Linton.....	North Linton.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 2.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 4.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 5.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 8.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 9.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 20.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 21.
Alliance Coal Co.....	Chicago, Ill.....	Gilmour.
Alliance Coal Co.....	Chicago, Ill.....	Lattas Creek.
Summit Coal & Mining Co.....	Bloomfield.....	Summit No. 2.
Green Valley Coal Co.....	Jasonville.....	Green Valley.
Queen Coal & Mining Co.....	Jasonville.....	Queen.
Calora Coal Co.....	Indianapolis.....	North West.
Coal Bluff Mining Co.....	Terre Haute.....	Twin No. 4.
Coal Bluff Mining Co.....	Terre Haute.....	Twin No. 5.
Robertson Bros. Coal Co.....	Linton.....	Cherry Hill.
Florence Coal Co.....	Bloomfield.....	Leisinger.
McKirker Bros. Coal Co.....	Midland.....	P. & I.

KNOX COUNTY.

NAME OF COMPANY.	Address of Company.	Name of Mine.
Knox Coal Co.....	Bicknell.....	Knox.
Lynn Coal Co.....	Bicknell.....	Lynn.
Freeman Coal Co.....	Bicknell.....	Freeman.
Bicknell Coal Co.....	Bicknell.....	Bicknell.
Washington-Wheatland Coal Co.....	Wheatland.....	Wheatland.
Tecumseh Coal & Mining Co.....	Bicknell.....	Tecumseh.

PARKE COUNTY.

McClelland Block Coal Co.....	Brazil.....	Brazil No. 9.
Zellar McClellan & Co.....	Brazil.....	Superior No. 2.
Zellar McClellan & Co.....	Brazil.....	Superior No. 3.
Zellar McClellan & Co.....	Brazil.....	Superior No. 5.
Fairview Coal Co.....	Mecca.....	Fairview.
Parke County Coal Co.....	Rosedale.....	Parke No. 11.
Parke County Coal Co.....	Rosedale.....	Parke No. 12.
Vivian Colliers.....	Chicago, Ill.....	Lyford No. 1.
James Moore.....	Kingman.....	Moore.
W. P. Harrison.....	Kingman.....	Harrison.
S. B. Coal Co.....	Kingman.....	No. 1.

PERRY COUNTY.

Lincoln Coal & Mining Co.....	Evansville.....	Lincoln.
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PIKE COUNTY.

Ayrshire Coal Co.....	Oakland City.....	Ayrshire No. 4.
Ayrshire Coal Co.....	Oakland City.....	Ayrshire No. 5.
Central Indiana Coal & Mining Co.....	St. Louis.....	Muren.
S. W. Little Coal Co.....	Evansville.....	Blackburn No. 1.
S. W. Little Coal Co.....	Evansville.....	Blackburn No. 2.
S. W. Little Coal Co.....	Evansville.....	Littles.
Winslow Gas & Coal Co.....	Winslow.....	Winslow No. 4.
Winslow Gas & Coal Co.....	Winslow.....	Winslow No. 5.
J. W. Welsh.....	New York, N. Y.....	Hartwell No. 1.
J. W. Welsh.....	New York, N. Y.....	Hartwell No. 2.
J. W. Welsh.....	New York, N. Y.....	Hartwell No. 3.
Peacock Coal & Mining Co.....	Indianapolis.....	Peacock No. 2.

SULLIVAN COUNTY.

Alliance Coal Co.....	Chicago, Ill.....	Rainbow.
Alliance Coal Co.....	Chicago, Ill.....	Phoenix No. 4.
Alliance Coal Co.....	Chicago, Ill.....	Hocking.
Alliance Coal Co.....	Chicago, Ill.....	Mammoth.
Sunflower Coal Co.....	Dugger.....	Sunflower.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 25.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 26.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 28.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 30.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 32.
Consolidated Indiana Coal Co.....	Chicago, Ill.....	Consolidated No. 33.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 10.
Jackson Hill Coal & Coke Co.....	Terre Haute.....	Jackson Hill No. 2.
Jackson Hill Coal & Coke Co.....	Terre Haute.....	Jackson Hill No. 4.
Gregory Coal & Mining Co.....	Shelburn.....	Keystone.
Brazil Block Coal Co.....	Chicago, Ill.....	Dering No. 13.
Brazil Block Coal Co.....	Chicago, Ill.....	Dering No. 14.
Shirley Hill Coal Co.....	Indianapolis.....	Shirley Hill No. 3.
Shirley Hill Coal Co.....	Indianapolis.....	Little Giant.
Shirley Hill Coal Co.....	Indianapolis.....	Clover Leaf.
Chicago-Indianapolis Coal Co.....	Linton.....	C. & I.
Kettle Creek Coal Co.....	Terre Haute.....	Pearl.
Peabody-Alwart Coal & Mining Co.....	Chicago, Ill.....	Reliance.
United Fourth Vein Coal Co.....	Linton.....	Black Hawk.
Carlisle Coal & Clay Co.....	Carlisle.....	Viola.
W. C. Hall Mining Co.....	Dugger.....	Freeman.
Bellevue Coal Co.....	Carlisle.....	Bellevue.
Larsh Coal Co.....	Farmersburg.....	Larsh.
Averill Coal Co.....	Hymers.....	Averill.
Sullivan County Coal, Product & Mining Co.....	Chicago, Ill.....	Hudson-Superior.

VANDERBURGH COUNTY.

NAME OF COMPANY.	Address of Company.	Name of Mine.
Diamond Coal Co.	Evansville	Diamond.
Gibson-Moore Coal Co.	Evansville	Ingleside.
Sunnyside Coal Co.	Evansville	Sunnyside.
Crescent Coal Co.	Evansville	Unity.
Banner Coal Co.	Evansville	First Avenue.

VERMILION COUNTY.

Brazil Block Coal Co.	Clinton	Dering No. 8.
Silverwood Coal Co.	Cayuga	Eureka.
Clinton Coal Co.	Clinton	Crown Hill No. 1.
Clinton Coal Co.	Clinton	Crown Hill No. 2.
Clinton Coal Co.	Clinton	Crown Hill No. 3.
Clinton Coal Co.	Clinton	Crown Hill No. 4.
Oak Hill Coal Co.	Clinton	Oak Hill No. 50.
Oak Hill Coal Co.	Clinton	Maple Valley.
Oak Hill Coal Co.	Clinton	Buckeye No. 2.
Oak Hill Coal Co.	Clinton	Klondyke No. 19.
Clinton Coal Co.	Clinton	Crown Hill No. 5.

VIGO COUNTY.

Vandalia Coal Co.	Indianapolis	Vandalia No. 66.
Vandalia Coal Co.	Indianapolis	Vandalia No. 67.
Vandalia Coal Co.	Indianapolis	Vandalia No. 69.
Vandalia Coal Co.	Indianapolis	Vandalia No. 81.
Alliance Coal Co.	Chicago, Ill.	Forrest.
Coal Bluff Mining Co.	Terre Haute	Riverside.
Coal Bluff Mining Co.	Terre Haute	Plymouth No. 1.
Coal Bluff Mining Co.	Terre Haute	Wabash.
Coal Bluff Mining Co.	Terre Haute	Minshall.
Lower Vein Coal Co.	Terre Haute	Lower Vein.
Miami Coal Co.	Brazil	Miami No. 2.
Miami Coal Co.	Brazil	Miami No. 4.
Miami Coal Co.	Brazil	Miami No. 5.
Miami Coal Co.	Brazil	Miami No. 6.
Otter Creek Coal Co.	Chicago, Ill.	Mary No. 2.
Fauvre Coal Co.	Indianapolis	Fauvre No. 2.
Deep Vein Coal Co.	Terre Haute	Deep Vein No. 4.
Deep Vein Coal Co.	Terre Haute	Deep Vein No. 5.
Grant Coal & Mining Co.	Burnett	Giant No. 3.
Vigo County Coal Co.	Seeleyville	Ray No. 2.
Sugar Valley Coal Co.	West Terre Haute	Sugar Valley.
Brazil Block Coal Co.	Clinton	Dering No. 6.
Domestic Block Coal Co.	Kokomo.	Domestic Block No. 1.
National Coal & Fuel Co.	West Terre Haute	National.
Glenn Ayr Coal Co.	Terre Haute	Glenn Ayr No. 1.
Glenn Ayr Coal Co.	Terre Haute	Glenn Ayr No. 2.
Pittsburg Mining Co.	Terre Haute	Pittsburg No. 1.
Retlaw Mining Co.	Atherton.	Atherton.
C. A. Nash	Coal Bluff	Nash.
Jackson Hill Coal & Coke Co.	Terre Haute	Jackson Hill No. 5.

WARRICK COUNTY.

Big Four Coal Co.	Boonville	Big Four.
Chandler Coal Co.	Evansville	Chandler.
C. Menden Coal Co.	Evansville	De Forrest.
T. D. Seales	Boonville	Electric.
Caledonia Mining Co.	Boonville	Dawson.
Erie Canal Coal Co.	Boonville	Erie Canal.
Red Shaft Coal Co.	Newburg	Red Shaft.
Worsham-Newburg Coal Co.	Newburg	Brizius.
J. Wooley Coal Co.	Boonville	Polk No. 5.
J. Wooley Coal Co.	Boonville	Castle Garden.
Elberfeld Oil, Gas & Mining Co.	Elberfeld	Elberfeld.
Epworth Coal Co.	Newburg	Epworth.
Henry Korff	Boonville	Korff.
Sargent Coal Co.	Newburg	Sargent.
Wilson-Wright Coal Co.	Boonville	Bull.